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&lt;213&gt; Homo sapiens

&lt;400&gt; 1449

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41

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1458

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&lt;210&gt; 1459

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1459

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<212> DNA

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41

&lt;210&gt; 1465

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents gtc or deletion

&lt;400&gt; 1465

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41

&lt;210&gt; 1466

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1466

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41

&lt;210&gt; 1467

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1467

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41

&lt;210&gt; 1468

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1468

accagctcag cctgcccagc rtgcacacgg caccaagctg g

41

&lt;210&gt; 1469

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1469

agatccaagg gatccagagg ytggaatgtg accctccgtg c

41

&lt;210&gt; 1470

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1470

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41

&lt;210&gt; 1471

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1471

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41

&lt;210&gt; 1472

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1472

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41

&lt;210&gt; 1473

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1473

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41

&lt;210&gt; 1474

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1474



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41

&lt;210&gt; 1475

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1475

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41

&lt;210&gt; 1476

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1476

cccagagtg ctagcttcac rgcaggattg ccgtcctgca g

41

&lt;210&gt; 1477

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1477

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41

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&lt;212&gt; DNA

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41

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<212> DNA

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41

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41

&lt;210&gt; 1482

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1482

cccaggcctg cagcactgaa rgacgacctg ccatgtccca t

41

&lt;210&gt; 1483

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1483

tcgcgtctgc gcgtccgcc yggctctgccg gcgtgagaaa g

41

&lt;210&gt; 1484

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1484

acaaggggcg gttgcgcccc kcagcggccg gactcccga g

41

&lt;210&gt; 1485

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1485

ccacttcct ccgccgggcc kctccttctc cacacgcggg g

41

&lt;210&gt; 1486

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1486

actcgtttgc agattttaca yttgttttct tgttgacaca c

41

&lt;210&gt; 1487

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents t or deletion

&lt;400&gt; 1487

gcgtttatac tttttttttt naaccaaaaa cacattattt g

41

&lt;210&gt; 1488

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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41

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41

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41

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40

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41

<210> 1497

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<220>

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<222> 21

<223> n represents 9 to 12 repeats of t

<400> 1497

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41

<210> 1498

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&lt;213&gt; Homo sapiens

&lt;400&gt; 1498

agagggtttc ccaagcacac yctgtgttg gggttattgc t

41

&lt;210&gt; 1499

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents a or deletion

&lt;400&gt; 1499

aaatatagat gcaaaaaaaaa ntgagctgtg gatgcatgtt t

41

&lt;210&gt; 1500

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1500

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41

&lt;210&gt; 1501

&lt;211&gt; 41



<212> DNA

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<220>

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<222> 21

<223> n represents 10 to 13 repeats of a

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<211> 41

<212> DNA

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<210> 1503

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<212> DNA

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41

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41

<210> 1505

<211> 41

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41

<210> 1506

<211> 41

<212> DNA

<213> Homo sapiens

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<210> 1512

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<212> DNA

<213> Homo sapiens

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41

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<212> DNA

<213> Homo sapiens

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&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1514

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41

&lt;210&gt; 1515

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1515

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41

&lt;210&gt; 1516

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1516

gggaggtgac ccatgaattt yacttgagta tcatctccaa g

41

&lt;210&gt; 1517

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1517

agaagaggta acagtaagcc kcttgattta cagcacacat c

41

&lt;210&gt; 1518

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1518

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41

&lt;210&gt; 1519

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1519

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41

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&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1520

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<213> Homo sapiens

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<400> 1531

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<213> Homo sapiens

<400> 1532

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41

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<222> 21

<223> n represents a or deletion

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41

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41

&lt;210&gt; 1535

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1535

gataaatgac aaggcaatta saacaatcag gaagcacagg t

41

&lt;210&gt; 1536

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1536

caaggcaatt acaacaatca rgaagcacag gtcttccca a

41

&lt;210&gt; 1537

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1537

cctcatcctt gccaatgttt ycttttactg gtttttgatg g

41

&lt;210&gt; 1538

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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41

<210> 1539

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<213> Homo sapiens

<400> 1539

atggcagtat attgatcaaa yagaaagggtg tagcatacat t

41

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<220>

<221> modified base

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<223> n represents c

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41

<210> 1541

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<213> Homo sapiens

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ttattggcct ctattttttc tgccattgg tcaagtatga

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&lt;210&gt; 1542

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1542

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41

&lt;210&gt; 1543

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1543

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41

&lt;210&gt; 1544

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1544

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41

&lt;210&gt; 1545

&lt;211&gt; 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

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<213> Homo sapiens

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40

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41

<210> 1548

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1548

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&lt;210&gt; 1549

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1549

gtgaccaatt tttattttgg ytgaaaaatc ttatttgaag t 41

&lt;210&gt; 1550

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1550

tattgattag acaataacc rcttggggaa gggatatttc t 41

&lt;210&gt; 1551

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1551

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<210> 1552

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<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 12 repeats of t

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41

<210> 1553

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<212> DNA

<213> Homo sapiens

<400> 1553

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41

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<211> 41

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41



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41

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<400> 1556

caattcatgg gtttttggtt agcttctcat cttcttgggg

40

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41

<210> 1558

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<220>

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<222> 21

<223> n represents aaaaaaaaaaaa

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41

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<220>

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<222> 21

<223> n represents aaaaaaaaaa

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41

&lt;210&gt; 1560

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1560

tcagacttgg gttttcctat ytttcttctt gagaacaagt t

41

&lt;210&gt; 1561

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1561

tgttaaaata tctcattgta yatgctgacg gatttttctt g

41

&lt;210&gt; 1562

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1562

ccttaagtct cctcctatca wgcaccttgt tctcaccage t

41

&lt;210&gt; 1563

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents t or deletion

&lt;400&gt; 1563

ctctctcttc ctttctcagc nctactatit cactgttggc t

41

&lt;210&gt; 1564

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1564

aatccccaata tcttacctta kccatctcat ccatgaatct t

41

&lt;210&gt; 1565

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1565

atccccaatat cctaccttag ycatctcatc catgaatctt g

41

&lt;210&gt; 1566

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1566

aatatgagtt ttctaggtat rtatctagca gtgtttcaag t

41

&lt;210&gt; 1567

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1567

aatatgagttt tctaggtata yatctagcag tgtttcaagt c

41

&lt;210&gt; 1568

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1568

ctctgaaagt tagtgataca ycttatttgt gtttgaatca a

41

&lt;210&gt; 1569

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1569

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41

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40

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<222> 21

<223> n represents a or deletion

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41

<210> 1575

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<220>

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&lt;222&gt; 21

&lt;223&gt; n represents c or deletion

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41

&lt;210&gt; 1576

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1576

ctgtcaatt tccctcgcga yagtattca ttccacatt c

41

&lt;210&gt; 1577

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1577

taattaatat ctgtccttg sgggttaa gaggatgt a

41

&lt;210&gt; 1578

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1578

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41



<210> 1579

<211> 41

<212> DNA

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<400> 1579

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gaaacattca cagtgttgt wtgagaagac agtggttatt a 41

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<211> 41

<212> DNA

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<210> 1582

<211> 41

<212> DNA

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tccaaaacct ctggatagta yatagaagta ggcaatccat t

41

&lt;210&gt; 1583

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1583

cctatgggtg gctcaggagc ygtgacacct tcccaggttc a

41

&lt;210&gt; 1584

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1584

gaggactttg cacatagtag rtgctcagct atattgttgg c

41

&lt;210&gt; 1585

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1585

tttggaatct aaagactggg kcacgatgct agtttgttga c

41

&lt;210&gt; 1586

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1586

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41

<210> 1587

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1587

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41

<210> 1588

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1588

ccctggtctc ccttaactca ygctggactg ttcctttgg t

41

<210> 1589

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1589

gcctgtgtac taagtctgcg sagctgaggt tcccacccta c

41

&lt;210&gt; 1590

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1590

atgggtgtggt ggtaggacca yggctgggtca ccagaggctg t

41

&lt;210&gt; 1591

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1591

aaaggctttc acatctaaaa mgtgtctcct cattttctgt c

41

&lt;210&gt; 1592

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1592

gattactta catatacacc rtgcggggga gctcaccacc t

41

&lt;210&gt; 1593

&lt;211&gt; 41

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1593

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41

<210> 1594

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1594

acaagtgga agagaaagct yggaggga agtccttga c

41

<210> 1595

<211> 41

<212> DNA

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41

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<211> 41

<212> DNA

<213> Homo sapiens

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<221> modified base

<222> 21

<223> n represents cct or deletion

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41

<210> 1597

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<212> DNA

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<400> 1597

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41

<210> 1598

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents tc

<400> 1598

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41

<210> 1599

<211> 40

<212> DNA

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<400> 1599

agctcttaag catttcccc ttctctcagc aaatataacc 40

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<212> DNA

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&lt;210&gt; 1603

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1603

tgtgggggtg aacagagctg rgacagctgg gagagccagt t 41

&lt;210&gt; 1604

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1604

ccittgcttg tggtcagaca mectgccttt ctctctgggc t 41

&lt;210&gt; 1605

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1605

tcatatgtga gaatcccccc mccaagggt atccagacac a 41

&lt;210&gt; 1606

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 1606

tccattcca agaatttct kgttgtgtg ctggcagga t

41

&lt;210&gt; 1607

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1607

tgtgcatcaa ggagagcttc ygcctctacc cacctgtgcc c

41

&lt;210&gt; 1608

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1608

agtcggatgt ggtcatgaac kctctgtcac tggcagtggt c

41

&lt;210&gt; 1609

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1609

cctggtcacc aacctctgtt ytgccacag gaagcctgat c

41

&lt;210&gt; 1610

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1610

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41

&lt;210&gt; 1611

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1611

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41

&lt;210&gt; 1612

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1612

ctgggtgtgg aggagttggg rccccctgcc ttcaggaggc t

41

&lt;210&gt; 1613

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1613

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41

<210> 1614

<211> 41

<212> DNA

<213> Homo sapiens

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41

<210> 1615

<211> 41

<212> DNA

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41

<210> 1616

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents ca or deletion

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41

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<400> 1617

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<210> 1619

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<400> 1619

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<210> 1620

<211> 41

<212> DNA

<213> Homo sapiens

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41

&lt;210&gt; 1621

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1621

gcctgtcctg gctgggcctc kggccagtgg cagcatcccc t

41

&lt;210&gt; 1622

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1622

cgggtgtttcc cacaaccccc ragacggaac tggttttggg g

41

&lt;210&gt; 1623

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1623

ggcagagaag cagaggagc rttttactca ttctctgtct t

41

&lt;210&gt; 1624

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1624

gggccgtctc ccacttccac yacacccgaa ggcaccttct t

41

&lt;210&gt; 1625

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1625

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41

&lt;210&gt; 1626

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1626

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41

&lt;210&gt; 1627

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1627

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41

&lt;210&gt; 1628

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1628

gcttttagctt tctccatgtc rcttttccta tcaaggtggc c

41

&lt;210&gt; 1629

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1629

cgcttttcct atcaaggtgg mcttttcctc atgatgtcaa c

41

&lt;210&gt; 1630

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1630

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41

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<213> Homo sapiens

<400> 1634

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&lt;210&gt; 1635

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1635

gggtttgaac tggtaggtgt kgtcagagct ctgtagggga c

41

&lt;210&gt; 1636

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1636

tgtgaaatgt cagatgaaag ratttgaact tgattaagag g

41

&lt;210&gt; 1637

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1637

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41

&lt;210&gt; 1638

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1904

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41

&lt;210&gt; 1905

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1905

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41

&lt;210&gt; 1906

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1906

cacgtgtgct ctaccccagg stcccagagg gagagggggg t

41

&lt;210&gt; 1907

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1907

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41

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41

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41

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41

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&lt;400&gt; 1911

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41

&lt;210&gt; 1912

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1912

tctgaccag taccagccag sggggcaagt ttccatcccc c

41

&lt;210&gt; 1913

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1913

gttgccatct gagatcttgc yggaagtaca caagagacc t

41

&lt;210&gt; 1914

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1914

ttccactggc cttttctgct yagtaattgc tacattacag g

41

&lt;210&gt; 1915

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1915

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41

&lt;210&gt; 1916

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1916

cccaggagtc caacctccct ktgtccagct agaccatggt g

41

&lt;210&gt; 1917

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1917

cctgggacat gttttcttat rtaaacagca tcaaaagatg t

41

&lt;210&gt; 1918

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1918

gccccgccag gactcctcac stgtccaagt cacctaggga g

41

&lt;210&gt; 1919

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents t or deletion

&lt;400&gt; 1919

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41

&lt;210&gt; 1920

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1920

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41

&lt;210&gt; 1921

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1921

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41

&lt;210&gt; 1922

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1922

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41

&lt;210&gt; 1923

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1923

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41

&lt;210&gt; 1924

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1924

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41

&lt;210&gt; 1925

&lt;211&gt; 41

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1925

accaagaatg aggccatccc ktccccacgt ggctgccc a t 41

<210> 1926

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1926

tgggttcaaa gatggaatgg kgcataactc agcaaaatta t 41

<210> 1927

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1927

gggagggagg ctggacaggg satgaaggca gaggctggtg g 41

<210> 1928

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1928

ggagggtggga cccaggatgg ygtttcttgg gaccacaagg a 41



<210> 1929

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1929

actccccgg cccactcac rctgccacc ttcctccct g

41

<210> 1930

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1930

actcattcca agtattgatc ragaagagag gtaggtactg g

41

<210> 1931

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1931

ttgaagatct taagttgttt ytggttcact catttcgcaa a

41

<210> 1932

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1932

agctaaaagc aaaacagcct ytgacctggc aagcattccc a

41

&lt;210&gt; 1933

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1933

tgtcctactt ttcttttgac settataact tcttgacttc g

41

&lt;210&gt; 1934

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1934

ccagctccta gtgggctgga rggaaggaca tgcggttggg g

41

&lt;210&gt; 1935

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1935

ttgcaaactg agttagggcc yggagagctt actgtgtgct g

41

&lt;210&gt; 1936

&lt;211&gt; 41

<212> DNA

<213> Homo sapiens

<400> 1936

tgcacttgcc gcctacttat kccagaccca atgattgggt c

41

<210> 1937

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1937

tatagattaa tgaggctctg rgtccctcaa aaccttcct c

41

<210> 1938

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1938

cccttacctc tccaaaaaac rcttgagata ccctagaggt g

41

<210> 1939

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1939

ctcaggatct tcctggagga yatggttcac tccatgaga g

41

<210> 1940

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1940

actaagcaga ttctaccaa ytgacctcc ccatccctt g

41

<210> 1941

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1941

gaacaagccc ctgagaatgc yttccgcacc cctactccc g

41

<210> 1942

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1942

acaagcccct gagaatgcct yccgcacccc ctactccgc c

41

<210> 1943

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1943

gcccttccat cgatcaccca yaccagcca tctactccc c

41

&lt;210&gt; 1944

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1944

tctactccc caggtgctta yctgcactcc agccttcca t

41

&lt;210&gt; 1945

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1945

cataggggag agggcaggaa yggagggaag ggagagagcc c

41

&lt;210&gt; 1946

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1946

tagtatttaa cctgccaaa ygctgtgtga agtctgacc t

41

&lt;210&gt; 1947

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1947

tcccctccac aagcttagac raacaggatt ctctgtgac t

41

<210> 1948

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1948

tttggtgaca gggcatcaac ytgctgtgtg gtcaacgcca g

41

<210> 1949

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents c or deletion

<400> 1949

caaggatagc acaaagacc nattgcagac ttcagatgga g

41

<210> 1950

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1950

gaaggtgggt atatccaggg rtggccaagc agccaccct g

41

<210> 1951

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1951

gttctgctag aacctgaact yataaaggtc ttcctgtcct t

41

<210> 1952

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1952

gtgagcgtct gcacatccaa staaagattg ttttctcctc c

41

<210> 1953

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1953

cgataagtgg gtgtaatttg yccatcccca cccatgagtt c

41

&lt;210&gt; 1954

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1954

cagctccctg cccctccctc rctctctctc cctcagccag c

41

&lt;210&gt; 1955

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1955

gacagctgct gagtcaggcc ragccggcag ctgagaaagg c

41

&lt;210&gt; 1956

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1956

cagctgagaa aggccggcagt sgtcagatgg gcttgagaaa c

41

&lt;210&gt; 1957

&lt;211&gt; 41

&lt;212&gt; DNA



<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents aaaa or deletion

<400> 1957

cctccaaaaa ataaaaacaa ncagaaatga aggaaataga a

41

<210> 1958

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1958

tggggtaagc ggaagacggg rttgaacgct ttgagtttgg t

41

<210> 1959

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1959

ctcttaggga tcttgtctaa ktaaagaaga gcagagcaaa g

41

<210> 1960

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1960

cagatcccag ctctctgtaa rcagcctcag atcaggccaa a

41

<210> 1961

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1961

gcgcctcaca ctcttataac rcgcacatgc cctgatgcac a

41

<210> 1962

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1962

atgccctgat gcacacacat yttcaacacg cacttactct a

41

<210> 1963

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1963

agacacgtca ccttcccaca ygtctccacc ctgggggtgt g

41

&lt;210&gt; 1964

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1964

tcagtcacct cagacacatg mctctctccc acgcagagac a

41

&lt;210&gt; 1965

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1965

gcggccaagg agagtgatga yggcagccca ggttgatcag a

41

&lt;210&gt; 1966

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1966

gtctctgggg ctccagcctt ygcagccctt gtgtgtgtct g

41

&lt;210&gt; 1967

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1967

ggcttcgcag tcacctcgtg kccctccagg gccgaggcct c

41

&lt;210&gt; 1968

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1968

agggacctgg gggcagacag ygaggccacc ctgtattga g

41

&lt;210&gt; 1969

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1969

cccagggaca ggactggcct stgtggccg tcatcagtgc a

41

&lt;210&gt; 1970

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents c or deletion

&lt;400&gt; 1970

aggacattct ggccacatgc ntcatactcc tcctccaagc c

41

&lt;210&gt; 1971

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1971

tggccccac cgcggtgtgt rttccacca tcctgacccg c

41

&lt;210&gt; 1972

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1972

tgttgtttct ccttaaagag mtatttgttt ttcccccaa a

41

&lt;210&gt; 1973

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1973

gctggccttc tggttgcag wagtgtatt ttaagaatca g

41

&lt;210&gt; 1974

&lt;211&gt; 41

<212> DNA

<213> Homo sapiens

<400> 1974

tgcagaagtt gtattttaag ratcagagct ctigtgagga g 41

<210> 1975

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1975

ttctgtggaa atcagaggct stctaaaata ttcctaattt t 41

<210> 1976

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1976

tggacgcact caacattttc ragttattac tccttcaact c 41

<210> 1977

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1977

aggatatcat gaaacactga mtcttagtaa aaactatcctt t 41

<210> 1978

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1978

tactgtggaa tttttcttgc macagagata tgtatttttc a

41

<210> 1979

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1979

cagtggtaga tgtgttttct rttgccatca tctacaaata t

41

<210> 1980

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 7 to 9 repeats of t

<400> 1980

tgttcaaata ggcttttttt ncagagaatt gaatgctttc t

41

<210> 1981

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a or deletion

<400> 1981

tcagtcgtat tcctactaaa ncaaaatttt gtaagttatg t

41

<210> 1982

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1982

ctttttattt gctgcctacc rttttactaa ggttggatat a

41

<210> 1983

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1983

cttttaataa atgcaaactg yacacctggt ctataaaaag a

41



<210> 1984

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1984

cctatagaat tttcttttc kttttctca aaaaaattaa a

41

<210> 1985

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1985

tttcttttt ctcaaaaaa yttaaagttt gttatttatt t

41

<210> 1986

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1986

ttctgtagat gaagcttaag wgctagatct tatttgaaaa a

41

<210> 1987

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1987

tttttaactt attgtttgcc ktttcatttt ttaatagaaa a

41

&lt;210&gt; 1988

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1988

cgaatttgct gcttttagag waatctttgc aaataataaa a

41

&lt;210&gt; 1989

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1989

atttttcttc ttgtaagtat sagtgataga gctgactgca g

41

&lt;210&gt; 1990

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1990

atttgtaaga cttttaaaat ragataattg tgctggtgct t

41

&lt;210&gt; 1991

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1991

tgtgctggtg tctatatctt rctgagaaaa ctagaattta t

41

<210> 1992

<211> 41

<212> DNA

<213> Homo sapiens

<400> 1992

ataagtgtc tcccagtgtt rattggactt agagcatttt c

41

<210> 1993

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents taac or deletion

<400> 1993

caaaacagaa taatgaaaag ntattatcta aaataataaa a

41

<210> 1994

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents ctcctt

<400> 1994

aacatactct cctcctctct naagtcaaaa tatattagta t

41

<210> 1995

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents ct

<400> 1995

aacatactct cctcctctct naagtcaaaa tatattagta t

41

<210> 1996

<211> 40

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1996

aacatactct cctcctctct aagtcaaaat atattagtat

40

&lt;210&gt; 1997

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1997

ttctgtgaaa gtgtcccaaa wgtgccttt aaattgtttt t

41

&lt;210&gt; 1998

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1998

agltcacat gtattttttc yggatttcct atgtttatca a

41

&lt;210&gt; 1999

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1999

ctcatttcaa acttggtat ytgactctc cccaggcatt g

41

&lt;210&gt; 2000

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2000

atcccctagt gatgtacact ragcttgcct ccattttcc t

41

<210> 2001

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2001

ctgatttata tattagctga ytttccaagt tcagacatct a

41

<210> 2002

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a or deletion

<400> 2002

ttcttttact tcaatgttagc nccaaatcag aaggtgacat t

41

<210> 2003

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2003

atccactgg atttaattac mtgtgttagc ttgtacaacc a

41

<210> 2004

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2004

attttggaag agaaattata kaaccttcca caactgaatt t

41

<210> 2005

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 2005

aatcctggtg tttttttttt nctttttcat ttttcagtag g

41

<210> 2006

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2006

aagtaactca aggaaagatg rtttaacttg tgaaatcgta a

41

<210> 2007

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2007

ctcatagttc agaagagttc mgagcccaat tcagaagagt t

41

<210> 2008

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents g or deletion

<400> 2008

tgaacctata aaatttctaatt nccatctttg gatgaggtgc a

41

<210> 2009



<211> 41

<212> DNA

<213> Homo sapiens

<400> 2009

ccagggacaa aagaagatga ygtaaactta aggattggga c

41

<210> 2010

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2010

agcaagccag gaagaaagtc sattaagttg tatttagaaa t

41

<210> 2011

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents aattagaa or deletion

<400> 2011

atagccatga aggataagaa ntgccatttg ttatgtttca g

41

<210> 2012

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents tttaaaa or ttttaa

<400> 2012

aactctttct ctcatctgc ngcaagcctt gaaggagagt g

41

<210> 2013

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2013

gcatgcaaaa taatgaagaa racaatcttg tctgacattg a

41

<210> 2014

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2014

aaatatttca gaatttgggg rtgtagagca ttgcccgtca t

41

<210> 2015

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 2015

cttgaagtc tttttttttt naaagtaatg aaaatttcta a

41

<210> 2016

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2016

agacaacact gcttttttgt rtgttcacaa ttcaacgaca g

41

<210> 2017

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2017

aactggctga aaggaaaaaa wtcatattgc tgtaaatatt t

41

<210> 2018

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2018

tgcttttgct ttccacttca rtatccagaa aactctctca t

41

<210> 2019

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2019

aacatggaac tatagtaaat rtagtttttt tggggttcag a

41

<210> 2020

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 2020

aatttacact tttttttttt ngcaggagaa tattttgcaa a

41

<210> 2021

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2021

aatggagctc atgcatgtgt kttcaaatat atacatgcaa a

41

<210> 2022

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2022

tatttcctta gccagcggta ycacagtgtg tttagtgaat t

41

<210> 2023

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2023

tcacattgcc ttgacatcac mcctactgct cctccaccct a

41

<210> 2024

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents g or deletion

<400> 2024

agtcctgcaa gggtagacacc nttatgccac aagcagttgg g

41

<210> 2025

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 2025

tgagtccttc tgaagtcaaa natgcggggc actttttgaa a

41

<210> 2026

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2026

tctgaagtca aatatgcggg kcactttttg aaatccttgt t

41

<210> 2027

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2027

aagggaatcc ctgagctgag matgaccagc ccagtggttt c

41

<210> 2028

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2028

cctccctgaa gtcctcagca mtcttagctg gttcctcgcc c

41

<210> 2029

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2029

tgcttccaag gaagttcatc kcagtattat ttgtaattag c

41

<210> 2030

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents aaa or deletion

<400> 2030

tgtaattagc aacaacaaca ngaaaagaag cttaatattg a

41

<210> 2031

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a or deletion

<400> 2031

ttatttgtcc attaaagaaa nctcaagcgc ttagcciggc a

41

<210> 2032

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2032

gagaatatgg gacacccctt kttcattctc tcattccagca t

41

<210> 2033



&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2033

tccttcctgc atttatTTTT rgctggatgt ttttatgcct c

41

&lt;210&gt; 2034

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2034

aaccagctca atgggttagg raggacattg atcgatcc c

41

&lt;210&gt; 2035

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2035

gagtcaaggc agtccccctga ygggctgac ctttgctctg g

41

&lt;210&gt; 2036

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2036

atggaagggtg tgtccattca mcttgccaa gctgggaaga a

41

&lt;210&gt; 2037

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2037

cagtatttta gatggtaaag yattatgatg taatatattg t

41

&lt;210&gt; 2038

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2038

ttggcatgtc agggctgcaa ractcatgta gaaatcactc c

41

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&lt;213&gt; Homo sapiens

&lt;400&gt; 2047

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41

&lt;210&gt; 2048

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2048

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41

&lt;210&gt; 2049

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2049

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41

&lt;210&gt; 2050

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2050

aggaactatc caaagagaaa yacattcata tacttcgcag g

41

&lt;210&gt; 2051

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2051

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41

&lt;210&gt; 2052

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2052

atatagatat acgaattcac rgagtgatgc gggaagaacc t

41

&lt;210&gt; 2053

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2053

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41

&lt;210&gt; 2054

&lt;211&gt; 41

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&lt;213&gt; Homo sapiens

&lt;400&gt; 2055

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41

&lt;210&gt; 2056

&lt;211&gt; 41

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&lt;213&gt; Homo sapiens

&lt;400&gt; 2056

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41

&lt;210&gt; 2057

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2057

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41

&lt;210&gt; 2058

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2058

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&lt;210&gt; 2059

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2059

gagaagctgc atcgctcacc mggggctggt ggtcactttt t 41

&lt;210&gt; 2060

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2060

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&lt;210&gt; 2061

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 2061

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41

&lt;210&gt; 2062

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2062

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41

&lt;210&gt; 2063

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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41

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41

&lt;210&gt; 2070

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2070

atttctggat tctgttagta ygtagaaagc tctaaagcat g

41

&lt;210&gt; 2071

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2071

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2082

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41

&lt;210&gt; 2083

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2083

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41

&lt;210&gt; 2084

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2084

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41

&lt;210&gt; 2085

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2085

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41

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&lt;212&gt; DNA

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41

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&lt;213&gt; Homo sapiens

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40

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&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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41

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&lt;213&gt; Homo sapiens

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41

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&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2090

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41

&lt;210&gt; 2091

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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41

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&lt;213&gt; Homo sapiens

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41

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&lt;213&gt; Homo sapiens

&lt;400&gt; 2098

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40

&lt;210&gt; 2099

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2099

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41

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41

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41

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41

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41

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&lt;213&gt; Homo sapiens

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41

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&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2126

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41

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&lt;211&gt; 41

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&lt;213&gt; Homo sapiens

&lt;400&gt; 2127

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41

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&lt;212&gt; DNA

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41

&lt;210&gt; 2156

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2156

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41

&lt;210&gt; 2157

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2157

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&lt;210&gt; 2162

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&lt;213&gt; Homo sapiens

&lt;400&gt; 2162

tggtatttct taaagaaata ycaattccat ttccttttaa c

41

&lt;210&gt; 2163

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2163

aagatcatta ttaatatctc rtcagcgtgg tgcacttaa g

41

&lt;210&gt; 2164

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2164

tgagaacatt acatgggacc ygccccagg gcatggaggc t

41

&lt;210&gt; 2165

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&lt;212&gt; DNA

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&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2169

ttcccatccc tcagtctgct ycttttccca giaccaacat g

41

&lt;210&gt; 2170

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2170

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41

&lt;210&gt; 2171

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2171

gagtccttta aaacacaaat sttaatgttt gaaatcaact c

41

&lt;210&gt; 2172

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2172

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41

&lt;210&gt; 2173

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2173

gggactcccc tagagctgaa rtactctccc atctgtttgt t

41

&lt;210&gt; 2174

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2174

ggaagatgaa gaacctaagc ygcttccaga aattcatgag g

41

&lt;210&gt; 2175

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2175

gtctaccctt taggaccatt rtaagagtac attgaggtaa t

41

&lt;210&gt; 2176

&lt;211&gt; 40



<212> DNA

<213> Homo sapiens

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40

<210> 2177

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2177

acagattatt ccattgtatg atgaactatg taagccatcc

40

<210> 2178

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41

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41

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41

&lt;210&gt; 2184

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2184

ctccttccac acttgtgtgc rggacattc actacctcct a

41

&lt;210&gt; 2185

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2185

gctgtcaata aggacaaaaa yagactaatt tcaaattcct c

41

&lt;210&gt; 2186

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2186

agctgctagg aataaaaagg ragacaaaac gatccacaag c

41

&lt;210&gt; 2187

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2187

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&lt;210&gt; 2188

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2188

aatcacagct catctgctgc rrcataggga tcccaaaaga a 41

&lt;210&gt; 2189

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2189

aatgtaacag ccaaagtcct rgaaaaaggc aagccagttc c 41

&lt;210&gt; 2190

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2190

ctaactgtga attatcatct ktgatcactg ccctttgaga t

41

&lt;210&gt; 2191

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2191

gagttctcag cagcaaattct cagtatgaaa ttttggattt

40

&lt;210&gt; 2192

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2192

tccagaggtt tagaacctca ycaagtggga ctctaggagc c

41

&lt;210&gt; 2193

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2193

aggatTTTTg acttgcttaa ytaccatgaa tgagaaactc t

41

&lt;210&gt; 2194

&lt;211&gt; 40

&lt;212&gt; DNA

<213> Homo sapiens

<400> 2194

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<210> 2195

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<400> 2195

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<210> 2196

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<212> DNA

<213> Homo sapiens

<400> 2196

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<212> DNA

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<400> 2197

cttggcaggg aggtaggga yggggtgggg taggaggact a 41

<210> 2198

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2198

ctgggggcag ccattcccca rccctcacc cagctctgac t

41

<210> 2199

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2199

taaatttgaa tgagtaattc rtccatctcg gcctcagitt c

41

<210> 2200

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2200

aaaaccccat gaagtggta rggcaggcat cattatctcc a

41

<210> 2201

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 2201

aaaaccccat gaagtgtgtca rggcaggcat cattatctcc a

41

&lt;210&gt; 2202

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2202

tagtagagta tgtgttggtc ragcagagcc aggggcaagc a

41

&lt;210&gt; 2203

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2203

tccttgggca agttaatctt ratgaagaga ctgggtgttc t

41

&lt;210&gt; 2204

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2204

cagagtcaga ctctggaaag kcggggggat aagaacacag c

41

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&lt;211&gt; 40



<212> DNA

<213> Homo sapiens

<400> 2205

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<210> 2206

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2206

ccaacatttg ctaagcaccc rccctcaaaa acctggtatt t

41

<210> 2207

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2207

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40

<210> 2208

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2208

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41

<210> 2209

<211> 41

<212> DNA

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41

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<211> 40

<212> DNA

<213> Homo sapiens

<400> 2210

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40

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<211> 41

<212> DNA

<213> Homo sapiens

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<210> 2212

<211> 41

<212> DNA

<213> Homo sapiens

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gaggggacct tgttgggctg raggtgtcct gccagctgga g

41

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<211> 40

<212> DNA

<213> Homo sapiens

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<210> 2214

<211> 41

<212> DNA

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41

<210> 2215

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2215

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41

<210> 2216

<211> 41

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<213> Homo sapiens

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<210> 2217

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<213> Homo sapiens

<400> 2217

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40

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<400> 2218

gttctcagtc cggtttcttc riatcttgca gatttatcca g

41

<210> 2219

<211> 41

<212> DNA

<213> Homo sapiens

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41

&lt;210&gt; 2220

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2220

tttgtagcct attcctataa raatgcacca ttgcttccca t

41

&lt;210&gt; 2221

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2221

taaaaatgca ccattgcttc scattacctc cctccacaca t

41

&lt;210&gt; 2222

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2222

acctccctcc acacattttt rcaaaacgtt tcaggagatt t

41

&lt;210&gt; 2223

&lt;211&gt; 41

&lt;212&gt; DNA

<213> Homo sapiens

<400> 2223

ctccacacat ttttacaaa ygtttcagg agtttactga g 41

<210> 2224

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2224

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<211> 41

<212> DNA

<213> Homo sapiens

<400> 2225

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<212> DNA

<213> Homo sapiens

<400> 2226

gttaggtgct gctgacatct rtccagcatc tgcttgactg g 41

<210> 2227

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2227

ggcaggacga gtcctgagca ygcttcactg gctcagacag g

41

<210> 2228

<211> 41

<212> DNA

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<400> 2228

actgagctgg acgctagaaa kaaactatag gcttaagaca c

41

<210> 2229

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2229

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41

<210> 2230

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 2230

ttgaaggata ctcagtaatt rctttttttc ttgcagtatt t

41

&lt;210&gt; 2231

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2231

gtgttttggtt cacacagctc yggagaaaaa caagtcacgg c

41

&lt;210&gt; 2232

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2232

ctccggagaa aaacaagtca yggcacagcc ttgacttggg a

41

&lt;210&gt; 2233

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2233

cccaagtctc tggatggggc rctgatcag gatgcatgca g

41

&lt;210&gt; 2234

&lt;211&gt; 41



<212> DNA

<213> Homo sapiens

<400> 2234

atgcatgcag agcctggctg rgatgagga gggctgctac c

41

<210> 2235

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2235

accacttata tcaacagata sgggacctgt ggcctattta c

41

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41

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<211> 41

<212> DNA

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<400> 2237

tgggaggaac agcacataac ycaccttata tatgctgagg t

41

<210> 2238

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2238

ggacactgca tagatatcta yagaaatagc agcatgtcag g

41

<210> 2239

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2239

acactctctg gtggaccatc ctcatccaag agagggtaac

40

<210> 2240

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2240

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41

<210> 2241

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2241

agagagcccc acccacacca yggiccctac caagtcacca c

41

<210> 2242

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2242

gcagttaatt ccaaactttt tcccttatig gatgagatca

40

<210> 2243

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 14 to 16 repeats of tca

<400> 2243

gtaaatctca gttgaatcag natttttcag tctggttcct g

41

<210> 2244

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 8 to 10 repeats of a

<400> 2244

gaggggcggg gactataggc ncagcctaata tcaaggatga g

41

<210> 2245

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents cacagtcata or deletion

<400> 2245

ttgttggttg tgcaatggat nttattcact cattcattca c

41

<210> 2246

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents tt or deletion

<400> 2246

cctgtccatc agactcttct naccctctccc cgaggagccc a

41

<210> 2247

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 10 to 12 repeats of a

<400> 2247

cctgggtgac agagcgagat ntagcatgag atattattac t

41

<210> 2248

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents c or deletion

<400> 2248

cacaaagcat ctgacacccc natccagccc tggctaactt t

41

<210> 2249

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 16 to 18 repeats of a

<400> 2249

cactaaaaac aaaaatttac ncctgaaaga aattgcaggc a

41

<210> 2250

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents g

<400> 2250

ttcatgacag atcagatggt ncttttatgg atttacaag a

41

<210> 2251

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2251

ttcatgacag atcagatgtt cttttatgga ttacaaaga

40

<210> 2252

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents c or deletion

<400> 2252

tttccttctt caaaccccc nagactagga gaaggtctgt c

41

<210> 2253

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 2253

gggacggaca gaaaaagacc nagtttctgt tgagccaaag a

41

<210> 2254

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a or deletion

<400> 2254

tattttttca attaaataaa ngagtttttt gtttctaaaa g

41

<210> 2255

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents tg

<400> 2255



gggccgagta tgcacactga ntgtgggaaa gttagagaag a

41

&lt;210&gt; 2256

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2256

gggccgagta tgcacactga tgtgggaaag ttagagaaga

40

&lt;210&gt; 2257

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents 10 to 13 repeats of t

&lt;400&gt; 2257

atcttcccca cctttcacta nggtcttcta tggggtaaag g

41

&lt;210&gt; 2258

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> modified base

<222> 21

<223> n represents 11 to 13 repeats of gt

<400> 2258

gtaccctgga cctcccagaa ngagagagat gtgccttcct g

41

<210> 2259

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a or deletion

<400> 2259

ataggggcag aaaagacaca nccaaaagtt ctctctcact t

41

<210> 2260

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents g or deletion

<400> 2260

catgatcaga gtaagggggg ntggaggat ggggagggga g

41

<210> 2261

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents g or deletion

<400> 2261

ggagaggaaa tgatgttagt ncctcctgta aataggccca g

41

<210> 2262

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 11 repeats of t

<400> 2262

tgctcttttg tgggtaatgg ncctcttcca ggagaagaaa a

41

<210> 2263

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents g

<400> 2263

cggggtggag ggttgggagg nctcatttgt cattatagat g

41

<210> 2264

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2264

cggggtggag ggttgggagg ctcatttgtc attatagatg

40

<210> 2265

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents tt or deletion

<400> 2265

tgctgccctc atcttctctc naaactagtt ctgtatttct c

41

<210> 2266

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 7 to 9 repeats of a

<400> 2266

tataacctga ctttttttc nggattgcit ttttaacat a

41

<210> 2267

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 11 repeats of t

&lt;400&gt; 2267

gctgaattag ttcccttggg nagttaactc ctgatttttg c

41

&lt;210&gt; 2268

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents 9 to 10 repeats of a

&lt;400&gt; 2268

gataatcaat gctgtaaggg ntggcattag agatccagac c

41

&lt;210&gt; 2269

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents gt or deletion

&lt;400&gt; 2269

taaaaccgtc ttgtttgttt nttacatggt ttttagggcc c

41

<210> 2270

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents a or deletion

<400> 2270

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41

<210> 2271

<211> 41

<212> DNA

<213> Homo sapiens

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<222> 21

<223> n represents t

<400> 2271

ccttgaccaa agcctggggg ncagccattc cccaaccct c

41

<210> 2272

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2272

ccttgaccaa agcctggggg cagccattcc ccaaccctc

40

<210> 2273

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a or deletion

<400> 2273

ataaaaagag ggggaaaaaa ngaaggcagt cgctgcaggg c

41

<210> 2274

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents ct or deletion

<400> 2274



gtggaccct gagactgact ntccagatc ttgttaggt t

41

&lt;210&gt; 2275

&lt;211&gt; 39

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents g or deletion

&lt;400&gt; 2275

actctggaaa ggcgggggna taagaacaca gccccagca

39

&lt;210&gt; 2276

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents a or deletion

&lt;400&gt; 2276

ggccccacc tgctgaagag ngggggggtg gggtttgcc c

41

&lt;210&gt; 2277

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents a or deletion

<400> 2277

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41

<210> 2278

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a or deletion

<400> 2278

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41

<210> 2279

<211> 41

<212> DNA

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<222> 21

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<400> 2279

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41

<210> 2280

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents aaag or deletion

<400> 2280

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41

<210> 2281

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2281

agaatgttgg cccctcccc ytcctgcac cctgcagaa g

41

<210> 2282

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<212> DNA

<213> Homo sapiens

<400> 2282

aatgttggcc cctccccct yctgcatcct ctgcagaagc c

41

<210> 2283

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2283

ggccagtgag tgacgggcag rtgccccaa tagcagcgtg c

41

<210> 2284

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2284

agagctgggg tcgtgcctcc rgctgggcaa ctgcctgtct c

41

<210> 2285

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 2285

ctctgtcccg tcccctgccc rgtctcacca tggccttctg g

41

&lt;210&gt; 2286

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2286

ccccgggcca aggacctccc rttccaggca tccaggctgt c

41

&lt;210&gt; 2287

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2287

cagcttggtg gaggccgctg rggacctggc ccaggaggta c

41

&lt;210&gt; 2288

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2288

gccggagggt cacggaaact rtttgaagaa gtaggagtta g

41

&lt;210&gt; 2289

.ttg、

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2289

tgcggaggat cagaggcaca ygcaggagca aggcagaggg g

41

&lt;210&gt; 2290

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2290

accggacctt cgaggagctc rccctgctga gggatgtccg g

41

&lt;210&gt; 2291

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2291

tttttttttt tttttttttt wlaagagatg gagtctcact c

41

&lt;210&gt; 2292

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

.212&gt;

&lt;400&gt; 2292

<213> Homo sapiens

<400> 2296

gagtgcacgga ggtgagggcc ygtccacctg cggggtctgt t 41

<210> 2297

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2297

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<210> 2298

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<212> DNA

<213> Homo sapiens

<400> 2298

caggctgcga actttgcacc ktacaccac tccacgtgac c 41

<210> 2299

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<210> 2301

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<400> 2301

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<212> DNA

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<400> 2302

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<210> 2303

<211> 40

<212> DNA

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<400> 2303

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<213> Homo sapiens

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ggcggggctc cgggccgggt sgcacctgct ttgcgggagg c

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<210> 2305

<211> 40

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40

<210> 2306

<211> 41

<212> DNA

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41

<210> 2307

<211> 41

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<213> Homo sapiens

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41

<210> 2308

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2308

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40

<210> 2309

<211> 41

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41

<210> 2310

<211> 41

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41

<210> 2311

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2311

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<210> 2312

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2312

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<210> 2313

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<211> 41

<212> DNA

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41

<210> 2320

<211> 41

<212> DNA

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41

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<210> 2326

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&lt;213&gt; Homo sapiens

&lt;400&gt; 2329

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41

&lt;210&gt; 2330

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2330

tgccctggcc ccacacccat sccagctcca cccacaccat g

41

&lt;210&gt; 2331

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2331

ccctgcccc caccatccc rgtccaccc acaccatggc c

41

&lt;210&gt; 2332

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 2332

actcatgctg gctccacca yaccatggcc ccgccccata c 41

&lt;210&gt; 2333

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2333

tgccctgccc catgccatt rtgcccctgc tccacactca a 41

&lt;210&gt; 2334

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2334

gaagcgctct gctcgcgctt rgccatcatg gtgaatgggc g 41

&lt;210&gt; 2335

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2335

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41

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<210> 2343

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 2343

caagctgagt gtgcacatac rggccaagtg gcgattcata g

41

&lt;210&gt; 2344

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2344

cttacaggag cccggtgtcc yggagcacag gccagggccg g

41

&lt;210&gt; 2345

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2345

cagcaggag acttggggag rgggagaga gttcacactg c

41

&lt;210&gt; 2346

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2346

agcagggaga cttggggagg rgggagagag ttcacactgc g

41

&lt;210&gt; 2347

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2347

cctcgacctg acccacttca yggggctgca gggcgggtga t

41

<210> 2348

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 22 to 26 repeats of t

<400> 2348

cgtgaactac cacgtcctgc naagagatgg agtctcactc t

41

<210> 2349

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 8 to 10 repeats of g

<210> 2352

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2352

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<211> 41

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<400> 2353

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41

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41

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41

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41

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41

<210> 2368

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41

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41

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41

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<211> 41

<212> DNA

<213> Homo sapiens

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41

&lt;210&gt; 2374

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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41

&lt;210&gt; 2375

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2375

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41

&lt;210&gt; 2376

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2376

gagttgtcct ccaagagaat ytttgtatgg ttccttttct g

41

&lt;210&gt; 2377

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2377

ctggggttgg tgggagccac rgcttcacac ctattggcag g

41

&lt;210&gt; 2378

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2378

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41

&lt;210&gt; 2379

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2379

acatggccgg cticccttct ycctcggaat ggcttggaat t

41

&lt;210&gt; 2380

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2380

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41

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<210> 2384

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 2384

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41

&lt;210&gt; 2385

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2385

cccttcagttg taataggcag raggagcgca cgaggaggct g

41

&lt;210&gt; 2386

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2386

attgtttctc ctggttttgt ytgtgttgac ttcccttta a

41

&lt;210&gt; 2387

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2387

cagatccctt ggttgctggg yaggtagtag gagaggtttt t

41

&lt;210&gt; 2388

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2388

aaacagggtc tgagtcctcc rtaagggaca ggagaccttc c

41

&lt;210&gt; 2389

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2389

aggagacctt cccacatcct rgcaagaatt cttctttttt c

41

&lt;210&gt; 2390

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2390

cagactaaat gcacaattct rgattgagct gactgtattg a

41

&lt;210&gt; 2391

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2391

tgtaaaagat ggagaagaac rcagtagtcg cttgctgtga g

41



<210> 2392

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2392

tgtgactcat ggcctctgcc rggggactgg gctggccctg c 41

<210> 2393

<211> 41

<212> DNA

<213> Homo sapiens

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tgaaaagaaa atggatgagt rgaaaccaa agagagaaaa t 41

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<211> 40

<212> DNA

<213> Homo sapiens

<400> 2394

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<211> 41

<212> DNA

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41

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<212> DNA

<213> Homo sapiens

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41

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41

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<213> Homo sapiens

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41

<210> 2399

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2399

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41

&lt;210&gt; 2400

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2400

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41

&lt;210&gt; 2401

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2401

ggcagcctgg gctgccgaga ycctccctgg agcgcccgcc g

41

&lt;210&gt; 2402

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2402

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<400> 2404

ccagctcatg ggcaggggtg yggagggaaa ggcacccaca g 41

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gaagaccagc agtcgatgcc rgctgggaag agggctctgc c

41

<210> 2407

<211> 41

<212> DNA

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41

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41

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41

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&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2414

tgtgtcctgg tttgtggctt satctaggag gtgtgggtggc c

41

&lt;210&gt; 2415

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2415

ctggaggaga agacaggata agtctaagac gtgctgtcac

40

&lt;210&gt; 2416

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2416

aggataaagt ctaagacgtg ytgtagacaga gttcagggtc c

41

&lt;210&gt; 2417

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2417

gcttccaaag gccgcatccg kgttggttc c tgagccgagg a

41

&lt;210&gt; 2418

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2418

atccgggttg ttctctgagc ygaggacggc ttgccaacg c

41

&lt;210&gt; 2419

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2419

tgctgacag tgaacacagc rgctgcttct ccagaacttt a

41

&lt;210&gt; 2420

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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41



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41

<210> 2425

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<212> DNA

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<400> 2425

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41

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tgaagggtga actggagtag stgaggattc tgcagttgac g

41

<210> 2427

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<222> 21

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ccgatgagga ggggatgggg ncaccaggca gcagactctg a

41

<210> 2428

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2428

ccgatgagga ggggatgggg caccaggcag cagactctga

40

<210> 2429

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents g

<400> 2429

catgaacttg cctgaccata nccctgtgag gagctagggc t

41

<210> 2430

<211> 40

<212> DNA

<213> Homo sapiens

&lt;400&gt; 2430

catgaacttg cctgaccata ccctgtgagg agctagggt

40

&lt;210&gt; 2431

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2431

tcatttgaaa gtgggtatgc rgtttaaacc tgacagttca a

41

&lt;210&gt; 2432

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2432

agctagtcac aaataaacac rccagagtag taaggaagag a

41

&lt;210&gt; 2433

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2433

cctcatgaat ggtatcatg wccaacata tccttttga t

41

&lt;210&gt; 2434

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2434

acagtgggcc ctttgggtgc rtatacccaa atccctgcat a 41

&lt;210&gt; 2435

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2435

ataggaataa ttgagaacag rgtctgaaga actctgcagg a 41

&lt;210&gt; 2436

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2436

ctgaagaact ctgcaggaaa ygaaaatagt tccctgcttt t 41

&lt;210&gt; 2437

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2437

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<211> 41

<212> DNA

<213> Homo sapiens

<400> 2438

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<210> 2439

<211> 41

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<400> 2439

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<210> 2440

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<212> DNA

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<400> 2440

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<210> 2441

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2441

ctgtttggga acagcaactc atcataggca gagagaaagt 40

<210> 2442

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2442

atttcaaacc tgtttcaca rttgttaagc tcattttaag g 41

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<211> 41

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<213> Homo sapiens

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<210> 2444

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2444

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<210> 2445

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2445

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41

<210> 2446

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<400> 2446

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41

<210> 2447

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2447

tgtaaaaaga cagcttttta rtttacctac agtgaacctc a

41

<210> 2448

<211> 41

<212> DNA

<213> Homo sapiens



&lt;400&gt; 2448

caaccctaaa ttggagggcc ygggcgtggt gattgagaaa g

41

&lt;210&gt; 2449

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2449

gttgacagac ttttatagtg gggacactga cctgcatgca

40

&lt;210&gt; 2450

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2450

atgtatgtac cagctcttca yattctttaa ggaagaccct a

41

&lt;210&gt; 2451

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2451

ggcaaattctt cgtgagtata rgagagtata agtaagcgtt t

41

&lt;210&gt; 2452

&lt;211&gt; 40

<212> DNA

<213> Homo sapiens

<400> 2452

tgacggtgag agaaaactta agttctcagc agctcttcgg

40

<210> 2453

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2453

actattctag ttgattctag rttgtcaata caacacactg a

41

<210> 2454

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2454

tcctattctg ttttaataaa rgcattgaat ttaggtttgc t

41

<210> 2455

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<212> DNA

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<400> 2455

gtcaggctga actagagcaa rcaatctaaa ggcaagaata g

41

<210> 2456

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2456

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<211> 41

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<210> 2458

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2458

tatactaata aatggtgtgt wtaagttttt atctctaatt g 41

<210> 2459

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2459

gacgcttatg tgcagcctat kttgatgtct ggaaaggctg a 41

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<212> DNA

<213> Homo sapiens

<400> 2460

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<210> 2461

<211> 41

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<213> Homo sapiens

<400> 2461

tgtgagtagg tctttgttct rggaacgggg ctgtccagca g 41

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<211> 41

<212> DNA

<213> Homo sapiens

<400> 2462

tgttcttcaa ggaaagcccc ygtcaaagaa ggaaaagaag c 41

<210> 2463

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2463

atgtctttag tcttgcctat kggtgaagtc agttgcacct t 41

<210> 2464

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2464

tatgcagtta catggacaga yacaacattg gagaccgagg g 41

<210> 2465

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2465

gctctgataa ggaattgttt ytttccttca tttcttcctg c 41

<210> 2466

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2466

ttactcaagc aggcctgact yttagtattt gctttttgta g 41

<210> 2467

<211> 41

<212> DNA

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<400> 2467

ctaataaaaa caaacaagaa ygaaagattg tcactgtaaa t 41

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<211> 41

<212> DNA

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<400> 2468

taactctttg gaaacttctt raaattttaaa acigtgtacc t 41

<210> 2469

<211> 41

<212> DNA

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<400> 2469

ccaggggcac tgaatttttc ygagcctacg ttttcacat c 41

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<213> Homo sapiens

<400> 2470

gccgcatagt catgtgttgt wgtttttaaa ttaacttgga a

41

<210> 2471

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2471

aacaagaaac acttgaataa rttgagaaaa aaccccgttt t

41

<210> 2472

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2472

tgagtagctg ggattacagg ygcccaccac cacacctggc t

41

<210> 2473

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2473

catcaattca ggtcaagaaa yagaagattg tagcacacaa a

41

<210> 2474

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents tcac or deletion

<400> 2474

gttgggatgg ctacactcac naaagcctga tggcccgttt c

41

<210> 2475

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 2475

ctgctagttt attttttttt naacattttt aatttatgtt t

41

<210> 2476

<211> 41

<212> DNA



<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 11 repeats of t

<400> 2476

tcaatatgtt tctgcttatac naatgggttac ttaatectaa t

41

<210> 2477

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 7 to 8 repeats of a

<400> 2477

aaacacttga ataagttgag nccccgtttt cacataatgt t

41

<210> 2478

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2478

ggcctgggtg tcccatgttc rgaaagtcct gcaccagtgg g 41

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<400> 2479

gaacacagaa ggtattctga ragggcatig acccccatcc t 41

<210> 2480

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2480

tgggtgccct catgaagtc ytggcacagg ggggccgtac c 41

<210> 2481

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2481

ggcctcctag gggtagagat ytcaccgtcg cctgccttcc c 41

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cttgcccttg ggaagtgagt rtgaatctaa actgagctct c 41

<210> 2483

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2483

ccccagaggc attgcaacca rtgggtgcta ggaagaacct a 41

<210> 2484

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<212> DNA

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acgtgagacg agataagtga yggcatatg gccaggagg a 41

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<212> DNA

<213> Homo sapiens

<400> 2486

acgagataag tgatggcat rtggccaggg aggaagggga c

41

<210> 2487

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2487

gggggacagc ttgaacaaga rtgtggaggc aggatggaca c

41

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<212> DNA

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<400> 2488

gagtgacagg cacatacatg gaacaggcca tctcagccct

40

<210> 2489

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 2489

aactcagatt ctcggcacct ycagcagctg gcttcgcaa c

41

&lt;210&gt; 2490

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2490

ctgaaattat atgcaaattc ygtagcttta taggaagcag a

41

&lt;210&gt; 2491

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2491

ttgtgtagga agctgataca ktaatttgac atatgagatg t

41

&lt;210&gt; 2492

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2492

ccaagaaact tcagctttct yttacitaa atataggaaa c

41

&lt;210&gt; 2493

&lt;211&gt; 41

<212> DNA

<213> Homo sapiens

<400> 2493

atatccagaa acagatggta ygtgcagaac aggttgtaca g

41

<210> 2494

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2494

tggatgatta gactgactct sagaatattg ataagccatt t

41

<210> 2495

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 13 to 16 repeats of t

<400> 2495

tttgtctggg ttggttgggg ngagactggg tctgactctc a

41

<210> 2496

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 10 repeats of t

<400> 2496

tacatttgtc aaaatttata ngcagataat catttcattc c

41

<210> 2497

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 14 to 16 repeats of t

<400> 2497

taaattcaca tgattctgta naggatcctc ctgactggca g

41

<210> 2498

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 13 to 17 repeats of t

<400> 2498

tctttcaaac ttatatattgc ncatagtttc atgtttgatg a

41

<210> 2499

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t

<400> 2499

ttgctctggt tcaaattctct naticatggg ccagcagctc g

41

<210> 2500

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2500

ttgctctggt tcaaattctct attcatgggc cagcagctcg

40



<210> 2501

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 8 to 9 repeats of a

<400> 2501

agtgtagatg gacctcgggg nctagttaag gaaaagtaat a

41

<210> 2502

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 8 to 9 repeats of t

<400> 2502

ttccaatttt ccattgttac ncttgccaga ttactcctga a

41

<210> 2503

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents gcagtattactgtagt or deletion

<400> 2503

tcctctgcat ttggcttct natttgcat ttcaaatta a

41

<210> 2504

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 13 to 14 repeats of t

<400> 2504

tttttgggt tctttcttct naatcttggga ggaatctttt t

41

<210> 2505

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 10 repeats of t

<400> 2505

gattagaaat ccaggttaaa ngttttgcac aaaaatatta c

41

<210> 2506

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 10 to 11 repeats of t

<400> 2506

taaaatttaa taaaattga nctcttagtc ctcaaaccct t

41

<210> 2507

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2507

taaatggaga aaataacacc racctgatag cattgttgtg a

41

<210> 2508

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2508

aaactcccca agcatgctca ctagatccit accctaggtc

40

&lt;210&gt; 2509

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2509

gccctgcccc cactcccaga sttgcggccc tccagcccct t

41

&lt;210&gt; 2510

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2510

cctcccccag aggagctggg yacactgggg ccttgtgttg t

41

&lt;210&gt; 2511

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2511

attgtgtgtt ggcatactgc ycacatggaa ggaigctcta g 41

<210> 2512

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2512

ttttccttag gaagaaaaac rccttgctgt ttatgcatt t 41

<210> 2513

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2513

aaaacattca tgggggatta stgctggcta cgicagagtc a 41

<210> 2514

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2514

gcgctgccac agatcaggcc raggtggggg acagaaatgc c 41

<210> 2515

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2515

cccagaattc tgaatacagc rgcgaigacg ggactacgag g 41

<210> 2516

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2516

aacagatcca caggaccaga agcaaagggg aggaacatgc 40

<210> 2517

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2517

atgcagggaa ggggcttggc rcaaaactgt caactgagat a 41

<210> 2518

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2518

atgctccctg gtccactttc rctttgagtt tcaggtagct g 41

<210> 2519

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2519

ccatggtctg caggggtcct kcatgctcag gggattggg t

41

<210> 2520

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2520

agaggacaga ggaaagagga cacctggaga actgggcgcc

40

<210> 2521

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2521

aagaggcttc cgcagctgtc ygcaggtaa atcctgggt g

41

<210> 2522

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2522

caggttaaatt cctgggggtgc raggaatgtt tgttcagctc c 41

<210> 2523

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2523

ataactggta caggtttact sgtgtctaca ctggcagaga a 41

<210> 2524

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 2524

gttttccctt tgccttgcc tncattttcat cacctcattt t 41

<210> 2525

<211> 41

<212> DNA

<213> Homo sapiens



<220>

<221> modified base

<222> 21

<223> n represents 12 to 15 repeats of t

<400> 2525

cacactgccca cacctggcta nggatttttag tagagacggg g

41

<210> 2526

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2526

tccagcgtgc cgaccggccc sgcagcgcct ccatccctcc g

41

<210> 2527

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2527

gcgtccaggc gcgcgcgcca ractttggag ggagaagggg g

41

<210> 2528

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 2528

agagaagaat ggggcagagc sggagcagcc aggggaggta a

41

&lt;210&gt; 2529

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2529

ggatgagcac tgcccagctg rtccctgcc accitccaca g

41

&lt;210&gt; 2530

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2530

tccactgcag aggggacaca stgaccagga cggaagttag g

41

&lt;210&gt; 2531

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2531

gggctgtcca tctttgtacc yctggtcca tcccagtgcc t

41

&lt;210&gt; 2532

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2532

ccttttcctt tctaaggcct raagagatga cagaatgctg c

41

&lt;210&gt; 2533

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2533

agcgcgtgga ctccacagcg rrgtgtgggg tggcccctgg c

41

&lt;210&gt; 2534

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2534

gacacgttc agccctctgt stctattgcc ccaaattctgg c

41

&lt;210&gt; 2535

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2535

ctgtggcttc cctgggccct rggaatttta tcactgaggt t

41

<210> 2536

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2536

gagtggggca ctgctggaag sttctgggtc ctgctttgtt c 41

<210> 2537

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2537

aaacacactg ggccaccccc rtcccgcac tgtgactaca c 41

<210> 2538

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2538

ctgagggcct gtcctgcagg kttgatgtgt ctgaagaggc c 41

<210> 2539

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 2539

gtctgaagag gccccgagaa yagaaatcta gaacctgcca g

41

&lt;210&gt; 2540

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2540

cagtcacgaa gcagtgtcac ycaccagagg atgaagaact g

41

&lt;210&gt; 2541

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2541

cttgcattctg gtgtaggtgc ytggggtag cgtgccagg a

41

&lt;210&gt; 2542

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2542

gacaggaacc ccacccgag kgatgtcttg cctgtgacc t

41

&lt;210&gt; 2543

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2543

gcttgcactt ctgattcatt ytgagtcac tggctctttg t 41

<210> 2544

<211> 41

<212> DNA

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<210> 2545

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2545

accacacag catgaatggg sccagcccca gcctgcccgc t 41

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<210> 2547

<211> 41

<212> DNA

<213> Homo sapiens

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<210> 2548

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<212> DNA

<213> Homo sapiens

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gatgctggtc aggcattgtc rttgggatct ttaacaccac c 41

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<211> 40

<212> DNA

<213> Homo sapiens

<400> 2549

tatttagcat gtgggtttca ctttctgttt ttcaaaggg 40

<210> 2550

<211> 41

<212> DNA

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<400> 2550

gacttgggcc acgtccttgg scatgaatct tggctatgt c 41

<210> 2551

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2551

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<210> 2552

<211> 41

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agcacacatg gagctttccc rcagtgggtt tcagcgtcc c 41

<210> 2553

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agggaagccg aagcctcact ygctggggct tgcctggcct c 41



<210> 2554

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tg tgaagttt tgcccacagt ygg tggccat ggttcgcacc g 41

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<211> 41

<212> DNA

<213> Homo sapiens

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<210> 2556

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2556

ccatagaaga ggctgggcct kaggaagcca gggaagcagg a 41

<210> 2557

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2557

ggtgtgggga ggccagcagg rgtgtgggcc tcagcgggga g

41

<210> 2558

<211> 41

<212> DNA

<213> Homo sapiens

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41

<210> 2559

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2559

ctggaacagc aacttaaaaa wagaaatagt ccctggaagg g

41

<210> 2560

<211> 39

<212> DNA

<213> Homo sapiens

<400> 2560

gggtagccag ggcagctccc ygacccgcac ctgcctttt

39

<210> 2561

<211> 39

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2561

gcagctcccc gacccgcasc tgccttttca cccctctcc

39

&lt;210&gt; 2562

&lt;211&gt; 39

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2562

gccattctag atgcgagtc ygactttggg gtgcttgca

39

&lt;210&gt; 2563

&lt;211&gt; 39

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2563

cgagtcccgga ctttggggyg cttgcattct gggaaggga

39

&lt;210&gt; 2564

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2564

ctacagctgt gaaaggtag rcaagatact taacatttct g

41

<210> 2565

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2565

acacctcaga ggagcctgtg ttaacatttg taggattatt

40

<210> 2566

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2566

aggcctcatc tggggtaggg scaagaggaa agtacagagt g

41

<210> 2567

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2567

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41

<210> 2568

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 2568

cttaacgcag gatgtgctgg rtgttttgtt tcgggccttt a 41

&lt;210&gt; 2569

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2569

gcttggtgtc tttcttggtt yatggctgtg tttttgcttt t 41

&lt;210&gt; 2570

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2570

ccgagggctg cccagctctg yttctgggtt cctggacaat t 41

&lt;210&gt; 2571

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2571

ctgtcagata cggcccatg yaaaccaga gggctgcatt t 41

&lt;210&gt; 2572

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2572

gttccccatg tggaggtcgg rggggctggg actggggagg g 41

<210> 2573

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2573

ggccctgcta atgtggacag yagactttat ccctccttct t 41

<210> 2574

<211> 41

<212> DNA

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ccagatgtgc atagaagcca rtctctgtca catacaccgc a 41

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<400> 2577

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<210> 2579

<211> 39

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<400> 2579

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<210> 2580

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<211> 41

<212> DNA

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<400> 2581

ttccaaggct acagacatgg ygccatcctc acaggcctag c 41

<210> 2582

<211> 39

<212> DNA

<213> Homo sapiens

<400> 2582

atttcatgtc tgcattgtac ragacacccc ttcacggca 39



<210> 2583

<211> 39

<212> DNA

<213> Homo sapiens

<400> 2583

tacgagacac cccttcacrg catacactgc catggtatg

39

<210> 2584

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2584

agacaggagt gttgggccag yggtcagggg gcctggggat g

41

<210> 2585

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2585

acctcttaaa gtatttgagc yggcgcctgt catcccaacc t

41

<210> 2586

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a or deletion

<400> 2586

cgggagcagg aaaaaaaaaa ngaataagaa gaaaagaggc t

41

<210> 2587

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents at or deletion

<400> 2587

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41

<210> 2588

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2588

ctgggtggag tgggtggca yggagttaa gacccagtcc t

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<211> 41

<212> DNA

<213> Homo sapiens

<400> 2589

tgtagccggcc ccagccctga scatgcatcc ctttggggac c

41

<210> 2590

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2590

accaccccttc tgcgtagcac rgagggtggg tggcatcaag g

41

<210> 2591

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2591

tgtaggctga ggtagcccc atccagtcca aagcccaccc

40

<210> 2592

<211> 41

<212> DNA

<213> Homo sapiens

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gaatgcggaa gtgctctgtg rgcaccacc atgctccggg c

41

&lt;210&gt; 2593

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2593

gatctggggc ggagggtaca yggggctggc gctgggtgaa g

41

&lt;210&gt; 2594

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents t or deletion

&lt;400&gt; 2594

tggtgtaaatt tttttttttt ngcttcaaaa atatagtatt t

41

&lt;210&gt; 2595

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents ttc or deletion

&lt;400&gt; 2595

tgaactcggg gttcagggtc nctgtgaaca ctggltttga a 41

&lt;210&gt; 2596

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2596

ggaaatgctg gctaaataaa nggtatcaaa ctaactctga a 41

&lt;210&gt; 2597

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2597

tcgttggatg gtagtattgt ktgaacaaca gaagaaattc a 41

&lt;210&gt; 2598

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2598

ccaaatgcat gccagcagag ygtggcagga aggtacacaa g

41

&lt;210&gt; 2599

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2599

aaggaatttg cataagacag ytatgcaaaa tggagctigga g

41

&lt;210&gt; 2600

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2600

cagaagatct tactctctaa kgaagctigga taacactttt t

41

&lt;210&gt; 2601

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2601

tttacttttg taatcatact yatcaaatgt gtgtttagac a

41

&lt;210&gt; 2602

&lt;211&gt; 40

<212> DNA

<213> Homo sapiens

<400> 2602

aaaccacata ctatttgatt tgatgagaat cacataacca

40

<210> 2603

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2603

tatgattcaa ctttcaaaag wgtattgtga tatgaaatag a

41

<210> 2604

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2604

caacttctgc catcttattg ratctgtact tacctagtaa t

41

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<212> DNA

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tggttaagagg cttaagata caaatgctca gctttcagga

40

<210> 2606

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents ctt

<400> 2606

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41

<210> 2607

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2607

tactcttaaa attaatcctt ttattataag tatacagtct

40

<210> 2608

<211> 41

<212> DNA

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41

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41

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41

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2613

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41

&lt;210&gt; 2614

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2614

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41

&lt;210&gt; 2615

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2615

cctttgaaaa cagagcccc ygagttacag tatkagcaaa a

41

&lt;210&gt; 2616

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2616

actatcttct gtgcgcatgc rcagagccca ccttgacagag c

41

&lt;210&gt; 2617

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2617

aggatgccag ctcttttaa at ragacatcgt ttttgcttaa c

41

&lt;210&gt; 2618

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2618

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41

&lt;210&gt; 2619

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2619

tgcacctga actgtttact ytcctgtaac catttaccct t

41

&lt;210&gt; 2620

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2620

aaaacatcca cgcaaacagg yltgagaag ttacgtctgc g

41

&lt;210&gt; 2621

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2621

aagactgtgc atgtgccaig agacagagat gtggatgcca

40

&lt;210&gt; 2622

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2622

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41

&lt;210&gt; 2623

&lt;211&gt; 41

&lt;212&gt; DNA

<213> Homo sapiens

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<213> Homo sapiens

<400> 2624

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<210> 2625

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2625

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<210> 2626

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2626

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40

&lt;210&gt; 2627

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2627

ctactgaaac gggataaatg yagcttgaig attttcagct g 41

&lt;210&gt; 2628

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2628

gtcacagttt aaatgctgct rttttactct gtgtaagtag c 41

&lt;210&gt; 2629

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2629

aagcatctct attttgaatg yagatcagca ctaaaagccc t 41

&lt;210&gt; 2630

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2630

gcaacgcca gttcctggta yaggcctcat atccagcgtg c

41

&lt;210&gt; 2631

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2631

cctggaggca caaggatggc ggggcactca acttcctct

40

&lt;210&gt; 2632

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2632

gttgtgtgac tgtgtgggc rctcacctc tcgggctgca g

41

&lt;210&gt; 2633

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2633

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41

&lt;210&gt; 2634

&lt;211&gt; 41

<212> DNA

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<400> 2634

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<211> 41

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acataattat tgtaaacaatg ycgcttacca gtgacattca t 41

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<211> 41

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<213> Homo sapiens

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<210> 2639

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<212> DNA

<213> Homo sapiens

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gaggacattc cacagaacgt rtgactatta gaggagaagg t 41

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<212> DNA

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<210> 2641

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2641

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<210> 2642

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2642

agggttacac aggagcacac ytttcaggga gtggtgtgac g 41

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<210> 2651

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 11 repeats of c

<400> 2651

gtaaaattgt tttaactaga nttcctaaac caaggtataa a 41

<210> 2652

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 15 to 21 repeats of a

<400> 2652

ctgtatccat tggaaggcac ntgcaaagga aacaaggcaa a 41

<210> 2653

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents ggggtggcggggtggg or deletion

<400> 2653

tggcgggggtg gcagggtggc ngagcagttc cacatctccc c 41

<210> 2654

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 2654

ctcactggaa cttttttttt naatttaatt tttaaaattt t

41

<210> 2655

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a

<400> 2655

cacttccatt ctgactgtta ncggtgtgat tcttcctgcc a

41

<210> 2656

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2656

cacttccatt ctgactgtta cgggtgtgatt cttcctgccca

40

<210> 2657

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a or deletion

<400> 2657

gcgcgtgctg tttctccctt ntctgtcctt gtacacgtgt g

41

<210> 2658

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 10 to 12 repeats of t

<400> 2658

tttctcgttt tctgggagac naatgttgaa aatatgtgtt t

41

<210> 2659

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents tt

<400> 2659

aattccccca ttgcttctct nctgtagaca tttaaacct a

41

<210> 2660

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2660

aattccccca ttgcttctct ctgtagacat tttaaacct a

40

<210> 2661

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base



<222> 21

<223> n represents tccctccttgaagctgacgt or deletion

<400> 2661

ccctccttga agctgacgt ngccaagat agttgctagg a 41

<210> 2662

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 12 to 18 repeats of ca

<400> 2662

caaataatg tatacatgta ntccttcacg aaaactcttt c 41

<210> 2663

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2663

ttaataaatg ttattcaat kaaaccaact gctaatttc t 41

<210> 2664

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2664

cctggagatt ttaactttct rcgaagtttt taaaaacaac t 41

<210> 2665

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2665

ggagaagggg accgcatgca raggtggca ggcaggagg g 41

<210> 2666

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2666

ccccttggga cggttctcac ytggtcccca ctccccagt c 41

<210> 2667

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2667

gcccgaagc attgctgtat rgcaccagg cctccagtga g 41

<210> 2668

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2668

cgagtaaaat ttttctaccg stttgtttta gagtgggtgc t 41

<210> 2669

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2669

aaaaaatttg tagatatggg kactccctat gttgccagg c 41

<210> 2670

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2670

tccctatggt gccaggctg rtcttgaatt ctggggctca a 41

<210> 2671

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2671

t t c t c t t c t a a g a a g a g t c y g t g c a g a t a c t t a g c a c a a a 41

<210> 2672

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2672

t c c a g c a t c t t c c c t t t c c a y t t t t a a g t t a g a c t t t t t t t 41

<210> 2673

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2673

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<210> 2674

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2674

a t a t a t t c c c t t t a a a g g t a s a g a a t a a c c c t t c a c t g a g a 41

<210> 2675

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2675

ggtttatagt gtccccccc wccccgcccc caaaagaccc a

41

<210> 2676

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2676

gaagctgccg ctccaggaag sagtctgtcg ttggagaaga g

41

<210> 2677

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2677

ggaaagctgg ggaactgttt kcctggaaca gagtctcaaa a

41

<210> 2678

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2678

tgtaactgc gtaacacagg ygtagaagtg gacattgttt t

41

&lt;210&gt; 2679

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2679

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41

&lt;210&gt; 2680

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2680

gggtaaaccc attttgaata ytagcattgc caatattctg t

41

&lt;210&gt; 2681

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2681

tatttgcttt ccttctctct ygttttctt ttctctgaa a

41

&lt;210&gt; 2682

&lt;211&gt; 41

&lt;212&gt; DNA

<213> Homo sapiens

<400> 2682

cagcacgttt ttctatgaa yaagacattc tccaaataac t

41

<210> 2683

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2683

tggctctgtg tgcatgaaca ygcacgcgtg cacgcgcaca c

41

<210> 2684

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2684

atgaacatgc acgcgtgcac rcgcacacac acacacacac a

41

<210> 2685

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 18 to 20 repeats of a

<400> 2685

tgcgattatc ttitgtaatt nggcaaatca gtccaaattt g

41

<210> 2686

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents aa

<400> 2686

cccccttcaat actagaacaa ngcagacaca ttaaattgtta c

41

<210> 2687

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2687

cccccttcaat actagaacaa gcagacacat taaatgttac

40

<210> 2688

<211> 41

<212> DNA



<221> modified base

<222> 21

<223> n represents aa or deletion

<400> 2690

tagcatttgg caaaggagaa ntgccaagaa gtatcttcga a

41

<210> 2691

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents ttgaca or gtccaatat

<400> 2691

agaaaactgg atgtctgaaa nactgcact tgtatgtgtt g

41

<210> 2692

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents cta or deletion

<400> 2692

ggattttaga ttcttccta ntctttccg accttcacc c

41

<210> 2693

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 10 repeats of t

<400> 2693

tttccatttt taagtttagac ncacctctct cgttacttca g

41

<210> 2694

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents gagatgttggtcacat

<400> 2694

ttctttcat gtctctatgt nagtcacct ctttgtgaga c

41

<210> 2695

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2695

tcctcttcat gtctctatgt agtcacctc ttgtgagac

40

<210> 2696

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents cc or deletion

<400> 2696

acacacacac acacacacac ntgctctgga gttgggcaac t

41

<210> 2697

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents act or deletion

<400> 2697

ttagaatagt ttctaactat ntttactccc aagagaagct t 41

<210> 2698

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2698

ctttctgatt ttgatagtc sgttgaagaa gggagtttga a 41

<210> 2699

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2699

ataacatctt ctgcagagaa ctccaatgga aatacactca 40

<210> 2700

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2700

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&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2701

atttcagaag atttattaac wtgaaaagga tcactctgct t 41

&lt;210&gt; 2702

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2702

acatgaaaag gatcactctg yttattcaca gacatatgca t 41

&lt;210&gt; 2703

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2703

aaattattca atctcttttg rcagtggttt cttttcttt g 41

&lt;210&gt; 2704

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 2704

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<210> 2705

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2705

gagaagtaag acacattacc yataaatctg taaatatcct a 41

<210> 2706

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2706

cattgatcag ggtgatttat ycatgctaag cttattttaat t 41

<210> 2707

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2707

tatattgatc atgttgatac tttatacaca tatttgtcta 40

<210> 2708

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2708

ttttaatcta ataagcaatt saggaccatc taaaggaaa t 41

&lt;210&gt; 2709

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2709

aggtgcttac aggcaacatc yacatagcag tctgtggctg g 41

&lt;210&gt; 2710

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2710

gacacattag cttcttttct rcagatctct gttctaaaac a 41

&lt;210&gt; 2711

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2711

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<211> 41

<212> DNA

<213> Homo sapiens

<400> 2712

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<210> 2713

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2713

atcaccagat aatttactat ycattaagga gtaggtcatc a 41

<210> 2714

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2714

tgattggta gaatcttga aaatcttcta gtatcatcc 40

<210> 2715

<211> 41

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<213> Homo sapiens

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tactctgtgc attgttaata ccctatcact tgtggtctgc c 41

<210> 2716

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2716

ctgttttaaat tctcattcaa yggccacatg gttaaaataa a 41

<210> 2717

<211> 41

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<213> Homo sapiens

<400> 2717

atggcaatat ttttagaaat rttaactccc aataatgaat a 41

<210> 2718

<211> 41

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<213> Homo sapiens

<400> 2718

tatatcatta ttttaactta kagatagcac tagcccta t 41

<210> 2719

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ttccacacag ggacaagtca rcagaggaaa tttttcttgc t 41

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<211> 41

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<400> 2721

aacaaaggtt tattttctta sagttctgat ggctagacgt c 41

<210> 2722

<211> 41

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<213> Homo sapiens

<400> 2722

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41

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41

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&lt;211&gt; 41

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<400> 2739

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&lt;211&gt; 41

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41

&lt;210&gt; 2741

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2741

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41

&lt;210&gt; 2742

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2742

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41

&lt;210&gt; 2743

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2743

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41

&lt;210&gt; 2744

&lt;211&gt; 41

&lt;212&gt; DNA



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40

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<222> 21

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41

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<211> 41

<212> DNA

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<220>

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<222> 21

<223> n represents 14 to 17 repeats of ac

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aatacattct tcccccttca natgcttact ggctattta t

41

<210> 2757

<211> 41

<212> DNA

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<220>

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<222> 21

<223> n represents 16 to 27 repeats of a

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41

<210> 2758

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<220>

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<222> 21

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<400> 2758

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41

<210> 2759

<211> 41

<212> DNA

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<220>

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<222> 21

<223> n represents 8 to 10 repeats of a

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41

<210> 2760

<211> 41

<212> DNA

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<222> 21

<223> n represents 9 to 11 repeats of gt

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ttgtgtgtat gtgtatgttt ntatittaat gaattaatat c

41

<210> 2761

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents aa or deletion

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<210> 2762

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents t or deletion

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<210> 2763

<211> 41

<212> DNA

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<220>

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<223> n represents 8 to 12 repeats of ac

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<210> 2764

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<212> DNA

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41

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41

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41

<210> 2768

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41

<210> 2769

<211> 41

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41

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aaagactggg agcacttccc ratgacaaat actagactag a 41

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&lt;211&gt; 40

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&lt;213&gt; Homo sapiens

&lt;400&gt; 2778

ttacctcata ttaacacctt atattgccac ataccctacc 40

&lt;210&gt; 2779

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2779

aaaaagttat atagaaatat ragtgcact cctttctagt t 41

&lt;210&gt; 2780

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2780

gtctactagt gttcaactcc yttagatctt agcctgtatc a 41

&lt;210&gt; 2781

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<400> 2782

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<400> 2783

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<210> 2786

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<212> DNA

<213> Homo sapiens

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<210> 2789

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&lt;400&gt; 2796

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41

&lt;210&gt; 2797

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2797

ttctttcttct ttggagctc waaagtagag ttcagttaat c

41

&lt;210&gt; 2798

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2798

atcatcactg catgagagtt rgaattatct aacttttga t

41

&lt;210&gt; 2799

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2799

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40

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41

<210> 2803

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<212> DNA

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<400> 2803

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<210> 2804

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<212> DNA

<213> Homo sapiens

<400> 2804

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<400> 2807

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41

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<210> 2812

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<220>

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<222> 21

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<400> 2812

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<220>

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<222> 21

<223> n represents ca or deletion

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41

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<220>

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<222> 21

<223> n represents t or deletion

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41

<210> 2815

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<223> n represents tgtgtg or deletion

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tgctattata taattttttt waaaaagat ttcctaatat t 41

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<210> 2832

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40

&lt;210&gt; 2837

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2837

ctaggggaaa taaagcttca staaggaggt ggcattaagc t

41

&lt;210&gt; 2838

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2838

atggagagaa gcagcagtgt rccacagata aatgaagtga g

41

&lt;210&gt; 2839

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2839

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41

&lt;210&gt; 2840

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41

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&lt;400&gt; 2883

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&lt;211&gt; 41

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&lt;213&gt; Homo sapiens

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&lt;221&gt; modified base

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&lt;213&gt; Homo sapiens

&lt;400&gt; 2946

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&lt;211&gt; 41

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&lt;400&gt; 2949

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&lt;210&gt; 2951

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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41

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<210> 2969

<211> 41

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<213> Homo sapiens

&lt;400&gt; 2969

atttattttg agcaaaggtc rcgactctct tagaaagcct c

41

&lt;210&gt; 2970

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2970

ttattttgag caaaggtcgc ractctctta gaaagcctca c

41

&lt;210&gt; 2971

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2971

tgagcaaagg tcgcgactct yttagaaagc ctcacaaatc a

41

&lt;210&gt; 2972

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2972

atttgtaact ttaagtctta kataacttat atttacaaaa t

41

&lt;210&gt; 2973

&lt;211&gt; 41

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<210> 2980

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<212> DNA

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cttgcccaat atcctaccaa ygtattatta aacggcatgg a 41

&lt;210&gt; 2981

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2981

tcctagtttc ctigaagata rgctacaact ttagtaaact t 41

&lt;210&gt; 2982

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2982

tccctgggcc tgtgtgtgcc wgtagtgaag acctgaaaga g 41

&lt;210&gt; 2983

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2983

cctggctcctg tgttgtccag yagtgaagac ctgaaagaga g 41

&lt;210&gt; 2984



<211> 41

<212> DNA

<213> Homo sapiens

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41

<210> 2985

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41

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<211> 41

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41

<210> 2987

<211> 41

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<400> 2987

atatacagaa ttctacac yaatttctta aattcctaaa t

41

<210> 2988

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2988

taaataatttt agtttgagac ktctttaaat ataatggaat g

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<210> 2989

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2989

tgtatttggc aaatgtattt kttaatat t caaaaactat t

41

<210> 2990

<211> 41

<212> DNA

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cagaacagaa attactcagc rcacttgggt gaatgcccaa g

41

<210> 2991

<211> 40

<212> DNA

<213> Homo sapiens

<400> 2991

tttcttagaa ttattttgat tttcaataac atcattaata 40

<210> 2992

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2992

aaaaaactgc atttttagtgg sttagctaga aaagatttgt c 41

<210> 2993

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2993

ggttagctag aaaagatttg kctcatatac acaataaatt a 41

<210> 2994

<211> 41

<212> DNA

<213> Homo sapiens

<400> 2994

caacagagga tcaatgtaaa kgaaatctct taaattaaac a 41

&lt;210&gt; 2995

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2995

ataaatatta atgttaaata ytaaagactg aatgcaatta a

41

&lt;210&gt; 2996

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2996

taaaatgaat cggtaaaaca ktcattgtata aatcactgtc a

41

&lt;210&gt; 2997

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2997

ataggcatat aatactcttt ttccctctgt atataggag

40

&lt;210&gt; 2998

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 2998

aacagctgtg gagcacaagg rgcttgtagg atatataatt c

41

<210> 2999

<211> 41

<212> DNA

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<220>

<221> modified base

<222> 21

<223> n represents tatc or deletion

<400> 2999

atatacataa catataccta ntatgttatg tgtctgctta t

41

<210> 3000

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents atattcacttggtatctg or deletion

<400> 3000

agcatcagca acaattaaaa ntagtttaat aatggaccaa c

41

<210> 3001

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents tttta or deletion

<400> 3001

tattcacttg gtatctgtag nataatggac caacatcaac a

41

<210> 3002

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents t

<400> 3002

cctgttcgct tatatgcagc nttttgtcca accaaacaga a

41

<210> 3003

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3003

cctgttcgct tatatgcagc ttttgtccaa ccaaacagaa

40

<210> 3004

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents g or deletion

<400> 3004

tataactttc tctttataaa natgcaaaat gttatagcat t

41

<210> 3005

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents a or deletion

<400> 3005

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<210> 3006

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents 9 to 11 repeats of a

<400> 3006

acatccatgt ttaacagaat ntattttgta acgacaaaag a 41

<210> 3007

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents g or deletion

<400> 3007

gagattgttt aaccaaatta ngaaactatt attcaacaca c 41

<210> 3008



<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 4 to 5 repeats of at

<400> 3008

ttttatatat gaattaaaat ncatatataa tcttacctaa g

41

<210> 3009

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 7 to 8 repeats of t

<400> 3009

attttctata ttatgaactg naagggtagt gatgtgaata g

41

<210> 3010

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 19 to 23 repeats of t

<400> 3010

tagtgtgccca cccttctctc ngagatggag tctcgctctg t

41

<210> 3011

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 3011

ttctttctta actcaaaggc nttttttttt ccatgtgaca c

41

<210> 3012

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents tgat or deletion

<400> 3012

aaaaatctta aggcacacac ntgacagtig ccttgattgt a

41

<210> 3013

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 8 to 10 repeats of t

<400> 3013

aaataaattg ttggcatcta natttttcta agggtcgctg t

41

<210> 3014

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<223> n represents a or deletion

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<210> 3015

<211> 41

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<400> 3015

gcagctcgga ctcagctccc rgagcaaccc agctgcggag g 41

<210> 3016

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<212> DNA

<213> Homo sapiens

<400> 3016

gaaggcctca gccccagcc rctgggctgg gcctggccca a 41

<210> 3017

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<212> DNA

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<400> 3017

caatagaaca acctttctc rggtcatgc cgccctgacc c 41

<210> 3018

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41

<210> 3019

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gagacttccc atgataacct yccagggtt ccccccaaa c

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<210> 3020

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<400> 3020

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41

<210> 3021

<211> 41

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<220>

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<222> 21

<223> n represents 13 to 15 repeats of a

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<210> 3022

<211> 41

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<222> 21

<223> n represents 12 to 15 repeats of t

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<210> 3023

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<400> 3023

ttgacctcca aaagtgtttg rattacaggc atgggccatt g

41

<210> 3024

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<210> 3026

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<400> 3026

cacatccatc attcgagaca mactcgtctc agctgccatg a 41

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actagactgc tagtgtcctc yggtagagccc agtcccatag g 41

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cctgcccaca gctctggctc rtcttgcccc agtgccatga c 41

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cctgtccacc actgtcgccc rccccacaat gcctccacag g 41

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<210> 3035

<211> 41

<212> DNA

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<400> 3035

gctcatcctc tctggtcctt ktgccccagc acaggttcct c

41

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41

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<211> 41

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41

<210> 3038

<211> 41

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tcgaagtaca aaggaaagtt yaaagagaag cctgagcctg g 41

<210> 3039

<211> 41

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<213> Homo sapiens

<400> 3039

gaccaatggg tttcagactc raagacaaaa attatgttta t 41

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<211> 41

<212> DNA

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<400> 3040

gcccacgtca gacatgacca rtcaatcaca gcactttctc c 41

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<220>

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<222> 21

<223> n represents g

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<210> 3043

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3043

tacatttggc ccccaggggg agcgcgtgat caggagagaa

40

<210> 3044

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a or deletion

<400> 3044

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41

<210> 3045

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3045

cagggatcct cattctgagc scgaggcgag ggggactcgc a

41

<210> 3046

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents g or deletion

<400> 3046

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41

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<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 11 to 13 repeats of t

<400> 3047

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<210> 3048

<211> 41

<212> DNA

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<400> 3048

gcatgcagct tagaagtttt rttttatgag ggtctctaac c 41

<210> 3049

<211> 41

<212> DNA

<213> Homo sapiens

<220>

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<222> 21

<223> n represents a or deletion

<400> 3049

ggtacgtttt tcagaattta ntttgaagc tcttccagtt c 41

<210> 3050

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3050

tcagctcttt agtgagactt staaattttc taagacaagc a

41

<210> 3051

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 11 repeats of t

<400> 3051

agcatagtgg acaagcagta naaacgtgaa gagcagaagc t

41

<210> 3052

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<212> DNA

<213> Homo sapiens

<400> 3052

tactgtaaga caatatgtta ytgtttttg tcttgctaaa c

41

<210> 3053

<211> 41

<212> DNA

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ttgggaccca catagagtca ytacttaaaa taaatgacca g

41

<210> 3054

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 3054

aggaatgtgc tttttaaaac nagatggtgt tagtcaagga g

41

<210> 3055

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3055

gacttttata attttgtata rctgatatta taggaataca c

41

<210> 3056



<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 3056

aaagagttat gtttttttt nctgcatctg atattatatg g

41

<210> 3057

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3057

ttgtcttttt atttattcat ytaaacttct gttttctggg g

41

<210> 3058

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3058

ccttccaaac ctttacttaa sattgtctgt ttggtcata a

41

<210> 3059

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3059

cataaattgt cagtcaaact rcatgttaat agaggacttc a

41

<210> 3060

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 3060

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41

<210> 3061

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3061

cccttccact acatgggcct rtgttaccat gtggaattat c

41

<210> 3062

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aactccaggt tgcaaata ygtttctggt attttaagta g 41

<210> 3063

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3063

ttttgaaagc cctcctagca kttctttaat ttctttattg a 41

<210> 3064

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3064

agataaattg atgaattatt yactctgtgc tgctgataga t 41

<210> 3065

<211> 41

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<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents aaga

<400> 3065

taaaaagaat ttctaaaaga nccttttttt tgaataactc t 41

<210> 3066

<211> 40

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<210> 3067

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3067

ctgaaataga aacctttcag wgtaccttgc agagcagtga a 41

<210> 3068

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3068

cagtgtcata aagatccagc rgaaatcaaa atgtttcata t

41

<210> 3069

<211> 41

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<213> Homo sapiens

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<222> 21

<223> n represents aaaa or deletion

<400> 3069

tctaaaaaaaa taaataaata ngagaaaatt aagtttaaga t

41

<210> 3070

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<213> Homo sapiens

<400> 3070

actcatttat tggttcaaag scitcttcaa ccttaggata t

41

<210> 3071

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3071

ttggttcaaa gccttcttca rccttaggat atgcattgag g

41

<210> 3072

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3072

gtttgagaca ttaacttcta rttcaactga agatgctagt t

41

<210> 3073

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 11 repeats of t

<400> 3073

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41

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atcagtacaa tgtgttgggc rtacaacact taatttaaaa t 41

<210> 3075

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<213> Homo sapiens

<400> 3075

taatacaaat catttgaagc rtttactatt aaaaaaacia a 41

<210> 3076

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<212> DNA

<213> Homo sapiens

<400> 3076

ctttgagcac ctactgcatt wtaagtgtg ttaagaigtg g 41

<210> 3077

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<212> DNA

<213> Homo sapiens

<400> 3077

ttaatcacct caatctttaa ygaatttctt gatttttctt t 41

<210> 3078

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3078

aatcaggata tgggggggttc rttctttatt ctgccacaaa t 41

<210> 3079

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3079

cattttaaaa tagtgcttta rtaggacttg gctgittaaag t 41

<210> 3080

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<212> DNA

<213> Homo sapiens

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<210> 3081

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<220>

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<222> 21



<223> n represents a or deletion

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41

<210> 3082

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<213> Homo sapiens

<400> 3082

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41

<210> 3083

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3083

tcactccatt tttaactgt scctcctaaa tgtgtggtta a

41

<210> 3084

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3084

tctttgttac acttcttaaa ycggggtatc agataatctt c

41

<210> 3085

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3085

gaataaaagg ataggacat kggtaagacc actttttccc t 41

<210> 3086

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3086

gccttcaat ttttcatgt ktaatagaga gaaaacctg c 41

<210> 3087

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3087

gactgactgg ttcataagtt sagaaatttc actgtggtgc t 41

<210> 3088

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 3088

tgttattacc atagtagttc ygtaacactt ggccgttgac t

41

&lt;210&gt; 3089

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3089

ttaacctctc ttgagtaaaa rgaatccttc agaaccagag g

41

&lt;210&gt; 3090

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3090

gtaaaaggaa tccttcagaa ycagagggga tggtagcgac c

41

&lt;210&gt; 3091

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3091

catacacttc tgctccgttt kccctgtcat tctgtgagcc a

41

&lt;210&gt; 3092

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3092

tattcatact gtgaaaaagg wgtttcatgg tgaagaaatt c

41

&lt;210&gt; 3093

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3093

ccacacctaa atgagattcc ygttttaaac actctcaagc t

41

&lt;210&gt; 3094

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3094

tgcacatata tactcattgt rgtttttact aggaactaga c

41

&lt;210&gt; 3095

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3095

ctaggaacta gaccaaactg rcagtactag aaatcttttt a

41

<210> 3096

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3096

cattgtgcta gattaggtgc yggggtaggt atgaaggggc a 41

<210> 3097

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3097

ctccttgccc tcctgaaaca yataagatct actctttgga a 41

<210> 3098

<211> 41

<212> DNA

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<400> 3098

gattatggct gattttcagt ktccttttaa tattttctc t 41

<210> 3099

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 3099

tctatatttc tcgaacggcc rtgaattact ttcataatct a 41

&lt;210&gt; 3100

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3100

ttggtcccca ctccacctgt satttcatta ttaaaacaac a 41

&lt;210&gt; 3101

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3101

ctctatttgg cctaacggta ycttggtttt cttttacttc c 41

&lt;210&gt; 3102

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3102

ttgggtcata agagctctct scatggtgtc tcaaacagat g 41

&lt;210&gt; 3103

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 11 to 13 repeats of t

<400> 3103

tttgtctctg catacttggc ncacagtga gtcctggaata t 41

<210> 3104

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3104

aataggatac aaatacaca wtagatgat tcagatccta a 41

<210> 3105

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3105

taaaatcggtt tttattgtta ytaggtatat aaaatttgct a 41

<210> 3106

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3106

tctgatttta tcactgttta yagattgctt agtcatactc a 41

<210> 3107

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3107

tgttagcctg tagctaaatg yttttcaa atgtgaacgg t 41

<210> 3108

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3108

atgaggtcgg acttttaaga yttttgtcta cattttcttc c 41

<210> 3109

<211> 41

<212> DNA

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tattgatgga gttcttttta kaaatggact ttaccttct t 41

<210> 3110

<211> 41

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<400> 3110

gcatttgggt gtctgagaga yatatccaga aatatgctat g 41

<210> 3111

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3111

tttcaagttt atttctgttt kttttttttt tttttttttt g 41

<210> 3112

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3112

aatccaaaca tctgtacttt ktagtggaca agatttatgt c 41

<210> 3113

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3113

gaaaagctac tttattcaaa rataaaagta ttttaagaaa a

41

<210> 3114

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3114

aagctggaga aaatactagg ytttcctcaa cagtatttc c

41

<210> 3115

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3115

tttgaggagg aactaatccc rtgacttcta ggttatctet t

41

<210> 3116

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<212> DNA

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<400> 3116

ttcacccctc attttaggtt rggggaggtg gcttgctaca g

41

<210> 3117

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<400> 3117

cctcatttta ggtagggga rgtggcttgc tacagtttta g 41

<210> 3118

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3118

cgtgaatcat tcagtatttt rtttaaaaat accagtttga a 41

<210> 3119

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents acta

<400> 3119

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&lt;210&gt; 3120

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3120

catgatttat tctctaacta tgctaagtca aagattctgc 40

&lt;210&gt; 3121

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3121

acaatgaaaa ttaagaaagg wgaagaggga agaagcagag a 41

&lt;210&gt; 3122

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3122

tacaagacac aggcatcttt ractagttta ctgggatctc t 41

&lt;210&gt; 3123

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 3123

ggctttgact tcggaaacct ktgggttata acaaagtact g

41

<210> 3124

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3124

gacattgggtg aaaaccaggg ytgtttagga gtgtcctgtc c

41

<210> 3125

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents gtg or deletion

<400> 3125

catctgagat ttgccttgtg nttaccgag ttagtgggtg c

41

<210> 3126

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3126

gatacatgaa caatttggtt yacctcatg atatctttca a

41

<210> 3127

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3127

taaaggccac aatgcagtga ytgaaatctc cagttacatt t

41

<210> 3128

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3128

tttccttagt ccttccatca ygaaactaaa gctgtcttcc a

41

<210> 3129

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3129

tttatatctc cacttttgat rggacactag caaaagatat t

41

<210> 3130

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 11 to 12 repeats of t

<400> 3130

accatctcat tcagtgttc nccctccact tgttgccagg c

41

<210> 3131

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3131

ttttttttcc ctccacttgt ygccaggcag agctgctttc c

41

<210> 3132

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3132

cagattgctt gaatttcagc mccagcttgg aatttcaga g

41

<210> 3133

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3133

gatttctgtg aaaattgaga rgatctggca acctggggct c 41

<210> 3134

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3134

ggccccctccc caggcaaagc rgtgagaaca tggctgtttc c 41

<210> 3135

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3135

tggagcgggc caagaggcgc rtagtgggga gtcctttga c 41

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<212> DNA

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<400> 3136

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<210> 3137

<211> 41

<212> DNA

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<400> 3137

tagcttgtga aagtgtagga rgtgaagggc tggctcactt c 41

<210> 3138

<211> 41

<212> DNA

<213> Homo sapiens

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tctgaaggcc tcgtgtactt yagtggggtg gggaggcca c 41

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aatTTTTgcc tctttttact rtcaatacaa cttgctaagt t 41

<210> 3140

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents tta or deletion

<400> 3140

ctatgtgctt atgattatta ngccaacaga acaatcagaa t 41

<210> 3141

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3141

ctaaatgtgg gtcactggga ygttaaccag gagagagaat c 41

<210> 3142

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3142

ctttacatct gtgcaagaga rggacaagga gcaaaticagc c 41

<210> 3143

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 3143

gtaaacttgc attgaaatgt rgaaagcagg taaaggaatg a 41

&lt;210&gt; 3144

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3144

tggggaatac caaaagcaac yaaagttcac cagaaaaggg g 41

&lt;210&gt; 3145

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3145

aaacttctaa aagaataacc rtgccagtca gattatgtgc t 41

&lt;210&gt; 3146

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3146

catacattca acaaacattt ygtggagcac atgctactat a 41

&lt;210&gt; 3147

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3147

gataggaag atcactgtga rctggaaaaa tctgggaaac c

41

<210> 3148

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3148

catcttgtct agattgcatg yttgtttgtt tgtttgtctc t

41

<210> 3149

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3149

ctacttaccc ccaaacaatg wtttctcttt cttaaagac c

41

<210> 3150

<211> 41

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<400> 3150

ccagagtgac tccagtatac mtcactgccc aggacccaca g 41

<210> 3151

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3151

cacttgaaag caaccataat ygtgaggttt ctgatgctgt a 41

<210> 3152

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3152

ttgctttaag cgaaatgaac yatacggaca ggagaacagc c 41

<210> 3153

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3153

acaggaacac ttagacatgc racccactcc caccctccgt c 41

<210> 3154

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents g

<400> 3154

cccaccctcc gtcttggggg naggaaagca cactactgtc c

41

<210> 3155

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3155

cccaccctcc gtcttggggg aggaaagcac actactgtcc

40

<210> 3156

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a

<400> 3156

actgtcccaa agaactaata nctgaaccag tgctgccttg t 41

<210> 3157

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3157

actgtcccaa agaactaata ctgaaccagt gctgccttgt 40

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<212> DNA

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<220>

<221> modified base

<222> 21

<223> n represents cct or deletion

<400> 3158

ttaaagtttt aaaaaaactt ntaaaaacta ctcatgagat g 41

<210> 3159

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3159

catcccagga cttgctgttc scaggtgata aactgcacct c

41

&lt;210&gt; 3160

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3160

aactgcacct ccccaggact mccgctgcac tcacatgcag c

41

&lt;210&gt; 3161

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3161

tttgggccgg gaacaatttt ycaaggttgt aaagccaaat t

41

&lt;210&gt; 3162

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3162

acctgggata ttcccgaccc matctggttt tcttttaccc a

41

&lt;210&gt; 3163

&lt;211&gt; 41

&lt;212&gt; DNA



<213> Homo sapiens

<400> 3163

atagagactg gaagtcacatca ygtgcagttc accgcttctg a 41

<210> 3164

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3164

cgtgctccac tgagctcctc kgtcacaccc cattcttgcc c 41

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<211> 41

<212> DNA

<213> Homo sapiens

<400> 3165

tgcagctgta aaaagaaatc ygtaaatggt gaccgtacta c 41

<210> 3166

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3166

cagtgttagc cagccgatat yggtaaggc tgccccgctc g 41

&lt;210&gt; 3167

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3167

ccattatccc ctttccccgg yctcagctgt gcactccagg c 41

&lt;210&gt; 3168

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3168

aacttacccc tctatccagc wctatccaga aggacaccag g 41

&lt;210&gt; 3169

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents gga

&lt;400&gt; 3169

acggaggcct caaaacagga naaataagga gacccctccc c 41

&lt;210&gt; 3170

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3170

acggaggcct caaaacagga aaataaggag acccctcccc

40

&lt;210&gt; 3171

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3171

gcacagcttt tgtcaggagt ycgtagctcc ggtctttgitt c

41

&lt;210&gt; 3172

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3172

gccttaactt tccccacatt kggtttctct tgatttttgc t

41

&lt;210&gt; 3173

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 3173

gtacaggatt tcaaaatact rtatatagaa accagacagt a

41

<210> 3174

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3174

cctgttgtct tggtaggtgc rcaacctttg ccagttaaag g

41

<210> 3175

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3175

agaggataga agtcccttct ratttagagg gcctctttct t

41

<210> 3176

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3176

tgaaaacata ttctttttga rtttagctga gtggcctgtt g

41

<210> 3177

<211> 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3177

cctgagacac cttacagctc ygtcctgctt ccatgcatt c

41

&lt;210&gt; 3178

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3178

tttcattcttt ctacaaatgg scccctcttc ctggctgcac t

41

&lt;210&gt; 3179

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents 12 to 14 repeats of t

&lt;400&gt; 3179

gcttcagagg tttttgtggg naacattcta tcaactttta a

41

&lt;210&gt; 3180

&lt;211&gt; 41

<212> DNA

<213> Homo sapiens

<400> 3180

ccaaaagccc tctcttttaa yatgacatta ataagacaat t 41

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<212> DNA

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<400> 3181

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&lt;213&gt; Homo sapiens

&lt;400&gt; 3191

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41

&lt;210&gt; 3192

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3192

caagtcactg ggccgttagc stccgtgcct gcaccttgaa g

41

&lt;210&gt; 3193

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3193

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41

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&lt;211&gt; 41

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&lt;213&gt; Homo sapiens

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41

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&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3195

ccactccctc tccaaatggt rctgccaat cttcttctaa g

41

&lt;210&gt; 3196

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents g

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41

&lt;210&gt; 3202

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3202

cacctgtaag tggagcggct yagaccaagg atcccaggat g

41

&lt;210&gt; 3203

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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41

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3212

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41

&lt;210&gt; 3213

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3213

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41

&lt;210&gt; 3214

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3214

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41

&lt;210&gt; 3215

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3215

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&lt;210&gt; 3216

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3216

gatttgtcaa gtggcatgca yggtttatgc cctctctcct g 41

&lt;210&gt; 3217

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3217

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&lt;210&gt; 3218

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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41

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41

&lt;210&gt; 3242

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3242

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&lt;210&gt; 3243

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41

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&lt;213&gt; Homo sapiens

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41

&lt;210&gt; 3272

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3272

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3276

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&lt;210&gt; 3277

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3277

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&lt;210&gt; 3278

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3278

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&lt;211&gt; 41

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&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3291

gactggccca gccatatagg rgaactccaa gggcagcaca g

41

&lt;210&gt; 3292

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3292

ccacaactgg tggcttgga ygcacctgt ttattagctt g

41

&lt;210&gt; 3293

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3293

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41

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&lt;400&gt; 3299

cactggatca gtcaggcca ssgtgggaaa caagagtaaa c 41

&lt;210&gt; 3300

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3300

tctcatctgt gatgcatccg ycagacctct gctcccagcc t 41

&lt;210&gt; 3301

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3301

agaatgactg agtgatcaga sctagagagc cccagccccg g

41

&lt;210&gt; 3302

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3302

agccaagcat ttcttgggga yaccaagaaa ccttgcttgg t

41

&lt;210&gt; 3303

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3303

aactccaccc tcaccgtcca ygcagctccc caggagcgtc a

41

&lt;210&gt; 3304

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3304

tccatgcagc tccccaggag ygtcagaggg cagaggaggg g

41

&lt;210&gt; 3305

&lt;211&gt; 41



<212> DNA

<213> Homo sapiens

<400> 3305

ccgcacagca ggagaatggc yccaaggag ggaggacgg g

41

<210> 3306

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents g

<400> 3306

tctcctgggt gtgtgtgggg ntgtggggca gctcccctat c

41

<210> 3307

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3307

tctcctgggt gtgtgtgggg tgtggggcag ctcccctatc

40

<210> 3308

<211> 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3308

tccaggacag aaacagcagg ygtgagctgc ctctcagagg g 41

&lt;210&gt; 3309

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3309

atgtccctta tgtggcttcc ragaccagaa gtcctggaga g 41

&lt;210&gt; 3310

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; modified base

&lt;222&gt; 21

&lt;223&gt; n represents c

&lt;400&gt; 3310

gccacaatct gcagctactc ntcccagctt gctgctgggc t 41

&lt;210&gt; 3311

&lt;211&gt; 40

<212> DNA

<213> Homo sapiens

<400> 3311

gccacaatct gcagctactc tcccagcttg ctgctgggct

40

<210> 3312

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3312

gaaaaggtgc gtggctgggg stggagcaga ggaggggctg c

41

<210> 3313

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3313

aggaggggct gctgtgagtg ygcctgggac atggcagtc t

41

<210> 3314

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3314

gctgctgtga gtgcgcctgg racatggcag tgctgtccac a

41

<210> 3315

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents ct or deletion

<400> 3315

ctgggtgtcat ctcccagact ngtcactaaa ccacaatatg a

41

<210> 3316

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3316

agcgtcatca caagcatagc rtggcaggca gcaggcttag g

41

<210> 3317

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

&lt;222&gt; 21

&lt;223&gt; n represents gc or deletion

&lt;400&gt; 3317

tggttcactg ggacagcagc nctggctgga gggggttgga g

41

&lt;210&gt; 3318

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3318

tcaggtcagc ctgggcctga mcatggacag gggccctgga g

41

&lt;210&gt; 3319

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3319

gtcctgtctg ggggtcttaa sggagtcag agacttcac a

41

&lt;210&gt; 3320

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3320

tgatcggggt gcggtttggg kcgacaggac aggagcagag a

41

<210> 3321

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3321

tcggggtgcg gtttggggcg rcaggacagg agcagagaat a

41

<210> 3322

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3322

tgagaagagc agaggggtgt kccgggtgct cgagtcacac c

41

<210> 3323

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3323

acacctgtgt ctgattaggg ytgattaggg gtgcagagtt t

41

<210> 3324

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3324

ttaccctctt cccactcccg ytgactgtg agtccatga g

41

<210> 3325

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3325

cccaggaacc aggaacagtg rggagccatc accccgccct g

41

<210> 3326

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3326

tcagtgttaa aacatcattt rtgtatgtat gaaaaatatt g

41

<210> 3327

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3327

actaggattg gatggacttg sgatcaggtc tcagctctgt c

41

<210> 3328

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3328

cagctctgtc acctgccaac yggcggcccc atttccctca a

41

&lt;210&gt; 3329

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3329

ccaggtggga gagcatctg yagcgtggtg acacccatca c

41

&lt;210&gt; 3330

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3330

gacacccatc acacgggtgc ygtgaccggtg tgcttatgtc g

41

&lt;210&gt; 3331

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3331



acacccatca cacgggtgcc rtgacccggt gcitatgtcg g 41

<210> 3332

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3332

agccaactgt tttcacagac rtggaagacc acatgttcat a 41

<210> 3333

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3333

ccttcgggcc tgtcatgac rtctctcggt ttgctgatgg g 41

<210> 3334

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3334

ccatgcatta aaccaccccc sacactgagt ggcttgaat a 41

<210> 3335

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3335

ataatcagag atttatttta stcacggtct aggttcaatg a 41

<210> 3336

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3336

gtcttgccgg aggcttcctc mgcgtggcag cctcggggtt g 41

<210> 3337

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3337

caaccaatc ttgccccgg ygctgcagcc cggcacattt t 41

<210> 3338

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3338

gggcctggag gagacactcc mgccaggagg cactgggggc c 41

<210> 3339

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3339

atagcaggga ggagttggcc rtgaagacc aggggccgt g 41

<210> 3340

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3340

tgggccact tatgaatcct scccgagttc cctcagctcc c 41

<210> 3341

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3341

tgaatcctcc ccgagttccc ycagctccct cctaacccta g 41

<210> 3342

<211> 41

<212> DNA

<213> Homo sapiens

&lt;400&gt; 3342

ggggcttccc actgtccaga saaggcgggtg ggagctgggg a

41

&lt;210&gt; 3343

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3343

attctgggga gtcctggccc rctatccact gccagggata a

41

&lt;210&gt; 3344

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3344

gagagacagg aggaaatggg ygtgggtcat ctgaggcccc a

41

&lt;210&gt; 3345

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3345

tgggaaacag gtgggaagac rgggattgag ctgggtgagc c

41

&lt;210&gt; 3346

&lt;211&gt; 41

<212> DNA

<213> Homo sapiens

<400> 3346

ggaagcagct cagactccct yagcagatgg ggccggggccc t

41

<210> 3347

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3347

agggtcggct cagaccccgg mgtgtccttg gcatgtccag c

41

<210> 3348

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3348

cgggtgggact tgccttagca ygtgccactt ataccagaac a

41

<210> 3349

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3349

gtgggacttg ccctagcacg ygccacttat accagaacag a

41

<210> 3350

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3350

acagatgagt ccatgtcaac ygcttcctga gtccctttg t 41

<210> 3351

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3351

ctgcctctca gcccacagcc rggccgctca cactcctccc a 41

<210> 3352

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents 9 to 11 repeats of t

<400> 3352

cacaaaatga gtttgtggg nacacaaagg cggaatcaca t 41

<210> 3353

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3353

accactaatc aactttctgc ytctatggat ttgcctattc t 41

<210> 3354

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3354

tgctgatctc actgctgtag yggtgctcct tatgcataga c 41

<210> 3355

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents a

<400> 3355

ttccttcagc tgatgattga nctctcagaa ttcaaaagaa a 41

<210> 3356

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3356

ttccttcagc tgatgattga ctctcagaat tcaaaagaaa

40

<210> 3357

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3357

cccaataagg tgagtggatg rtacatggag aaggaggag g

41

<210> 3358

<211> 41

<212> DNA

<213> Homo sapiens

<220>

<221> modified base

<222> 21

<223> n represents t or deletion

<400> 3358

agacatgtga cttttttttt ngaaaggtaa caatcacttt c

41



&lt;210&gt; 3359

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3359

agccgtctcg aatgtctccc yacttcataa ctctccaca c

41

&lt;210&gt; 3360

&lt;211&gt; 41

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3360

ttttttgccc attactccat rgagatcaga atatcactct g

41

## 【0081】

## 【配列表フリーテキスト】

配列番号39 : nはtを表す (存在位置21)。

配列番号64 : nはcを表す (存在位置21)。

配列番号580 : nはa又は欠失を表す (存在位置21)。

配列番号634 : nはa又は欠失を表す (存在位置21)。

配列番号656 : nはa又は欠失を表す (存在位置21)。

配列番号658 : nはc又は欠失を表す (存在位置21)。

配列番号671 : nはa又は欠失を表す (存在位置21)。

配列番号672 : nはg又は欠失を表す (存在位置21)。

配列番号673 : nはc又は欠失を表す (存在位置21)。